west chester state college bulletin

1979-1980

undergraduate studies catalog

ACADEMIC CALENDAR 1979-80

FALL SEMESTER 1979

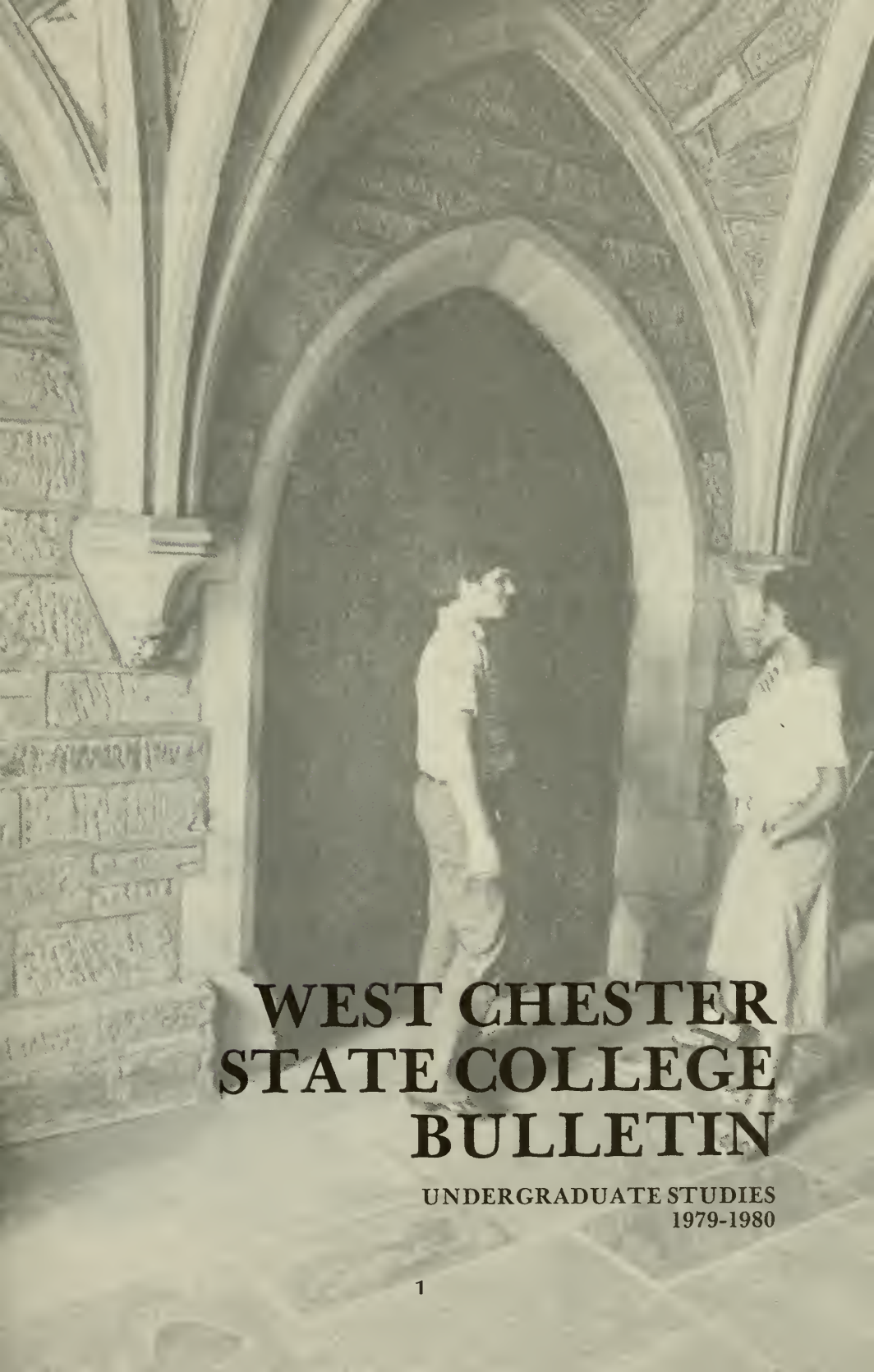
August 28, Tuesday	Faculty Meetings (As Per Departmental Announcements) Late Scheduling
August 29, Wednesday	Classes Begin
September 3, Monday	Labor Day, Holiday
November 21, Wednesday	Thanksgiving Recess Begins (Close of Classes)
November 26, Monday	Thanksgiving Recess Ends (8:00 a.m.)
December 15-21, 1979	Examination Period
December 21, Friday	Fall Semester Ends (Close of Classes)

SPRING SEMESTER 1980

January 14, Monday	Classes Begin
February 15, Friday	Winter Vacation Begins (Close of Classes)
February 25, Monday	Winter Vacation Ends (8:00 a.m.)
March 28, Friday	Spring Vacation Begins (Close of Classes)
April 7, Monday	Spring Vacation Ends (8:00 a.m.)
May 10-16, 1980	Examination Period
May 16, Friday	Spring Semester Ends (Close of Classes)
May 17, Saturday	Commencement

SUMMER SESSIONS 1980

June 2, Monday	Summer Sessions Begin



WEST CHESTER STATE COLLEGE BULLETIN

UNDERGRADUATE STUDIES
1979-1980

West Chester State College is accredited by The Middle States Association of Colleges and Secondary Schools, The National Council for Accreditation of Teacher Education, The American Association for Health, Physical Education, and Recreation, The National Association of Schools of Music, The Council on Social Work Education, and The American Chemical Society. West Chester State College is a member of The Council of Graduate Schools in the United States.

West Chester State College is committed to a policy of non-discrimination in compliance with all applicable Federal and State statutes. Education programs, activities, and employment at the college are provided to individuals without regard to marital status, race, color, national origin, sex, sexual orientation, age, or religious creed. In addition, the college endeavors to remove any barriers and to provide opportunity for education and employment of handicapped persons. This policy of non-discrimination applies to all students, employees, applicants for admission and employment, and to all participants in college-sponsored activities. Inquiries regarding compliance with this policy may be directed to Ms. Jeanette Sam, Director of Affirmative Action, Philips Memorial Hall, West Chester State College, telephone (215) 436-2838.

The provisions of this bulletin are not to be regarded as an irrevocable contract between the student and the college. West Chester State College reserves the right to change any provisions or requirements at any time.

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BACCALAUREATE PROGRAMS at WEST CHESTER STATE COLLEGE

BACHELOR OF ARTS

American Studies
Anthropology-Sociology
Art
Biology
Economics
Foreign Languages
  French Russian
  German Spanish
  Latin
Geography
History
Literature
Mathematics
Mathematics-Computer Science
Music
Philosophy
Philosophy-Religion
Physics
Political Science
Political Science—Public Administration
Psychology
Social Work
Speech Communication
Theatre Arts

BACHELOR OF MUSIC

BACHELOR OF SCIENCE

Business Administration
  Accounting Management
  Economics Marketing
Chemistry
Chemistry-Biology
Chemistry-Geology
Clinical Chemistry
Computer and Information Sciences
Criminal Justice
Earth Science
Forensic Chemistry
Nursing
Public Health

BACHELOR OF SCIENCE IN EDUCATION

Early Childhood Education
Elementary Education
Secondary Education
  Biology
  Chemistry
  Communications
  Earth and Space Sciences
  English
  Foreign Languages
    French German Latin
    Spanish Russian
  General Science
  Mathematics
  Physics
  Social Studies, Comprehensive
    Geography
    History
    Political Science
Health Education
Health and Physical Education
Music Education
Special Education
Speech Pathology and Audiology
Cooperative Degree Program for Dental Hygienists
3-2 Program in Engineering

Certification Programs at West Chester

Driver Education and Safe Living
Environmental (Outdoor) Education
Athletic Coaching

Continuing Education at West Chester

In addition to the degree and certification programs listed above, West Chester offers a variety of courses for non-degree students seeking vocational advancement of personal enrichment. Further details are available from the Continuing Education and Evening Studies Office, Room 108, Anderson Hall.

ERECTED
LIBRARY
A.D.MCCIII

West Chester State College offers four years of discovery to those who want to

explore the history of the wilds of Chester County;

find, in the familiar, something new;

develop untapped talents and curiosities;

cultivate college friendships that last a lifetime;

meet the challenge

INTRODUCING WEST CHESTER

Quality education at a reasonable price . . . this is the goal of West Chester State College, one of the largest of the fourteen institutions of higher learning owned and maintained by the Commonwealth of Pennsylvania. A comprehensive and multi-purpose college, West Chester serves individuals of all ages offering a variety of programs to fill their educational needs.

Listed in detail on page 4, these encompass liberal arts, science programs, teacher training and certification, preparation for advanced study in fields such as medicine and law, education for specific professions, and continuing education.

Total enrollment at West Chester includes about 6,000 full-time undergraduate students, about 1,200 part-time undergraduates, and nearly 1,500 graduate students. While most of these are recent high school graduates preparing for career objectives, many others are older individuals including veterans and homemakers who either never before had the opportunity for a college education or whose schooling was interrupted.

While the school's primary function is the education of Pennsylvania residents, high quality students from other states and foreign countries are welcome. West Chester's student body represents a cross section of many ethnic, racial, and religious groups and includes students from all economic levels.

Like the world around it, West Chester State College is constantly changing and growing. The school continues to broaden and modify the nature and number of its programs to reflect the needs of its students in their endeavor to prepare themselves for success and fulfillment in life.

HISTORY OF THE COLLEGE

Although its founding year is 1871, the college in fact has deeper roots tracing from the West Chester Academy, a private, state-aided school which existed from 1812 to 1869. The academy enjoyed strong support from the highly intellectual Chester County Society of the pre-Civil War decades. It was recognized as one of Pennsylvania's leading preparatory schools, and its experience in teacher-training laid the groundwork for the normal school years that were to follow.

As the state began to take increasing responsibility for public education, the academy was transformed into West Chester State Normal School, still privately owned but state-certified. The normal school admitted its first class of 160 students on September 25, 1871. In 1913 West Chester became the first of the normal schools to be owned outright by the Commonwealth.

West Chester became West Chester State Teachers College in 1927 when Pennsylvania initiated a four-year program of teacher education. In 1960, as the Commonwealth paved the way for liberal arts programs in its college system, West

Chester was renamed West Chester State College, and two years later introduced the liberal arts program which turned the one-time academy into a comprehensive college.

LOCATION OF THE COLLEGE

West Chester State College is in West Chester, a town which has been the seat of government in Chester County since 1786. With a population of about 20,000, the borough proper is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history.

Students may walk to West Chester's many churches. The town has excellent stores and shops and a fine hospital. In the heart of town is its courthouse, a classicial revival building designed in the 1840's by Thomas U. Walter, one of the architects for the Capitol in Washington, D.C. West Chester was settled in the early 18th century, principally by members of the Society of Friends; charming traces of their culture remain in the community.

West Chester today is part of the rapidly growing suburban complex surrounding Philadelphia and offers interesting opportunities for the study of local, county, and regional government in a period of change and growth.

Philadelphia is 25 miles to the east and Wilmington 15 miles to the south, putting the libraries, museums, and other cultural and historical resources of both cities in easy reach. Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historical attractions are near West Chester.

HOW TO REACH WEST CHESTER

The Borough of West Chester is easily accessible from all directions both by car and public transportation. Route 3, the West Chester Pike, leads directly into town from center-city Philadelphia. From the Pennsylvania Turnpike, motorists traveling west should take Route 202 south from the Valley Forge Interchange while those traveling east can arrive via Route 100 south from the Downingtown Interchange. From the south, Route 202 from Wilmington and Route 100 and 52 from U.S. Route 1 all lead to West Chester

Public transportation includes SEPTA buses which run from the 69th Street Terminal in Philadelphia into the center of town and the Penn Central Railroad which operates a limited schedule from Philadelphia's 30th Street and Suburban Stations to West Chester.

BACCALAUREATE PROGRAMS

West Chester State College offers certification programs and programs of study leading to the degree of Bachelor of Arts, Bachelor of Music, Bachelor of Science in Education and Bachelor of Science. These are listed on page 4. Programs of study at the graduate level are also available. These are listed briefly on page 21 and are described in detail in the college bulletin of graduate studies.

INTERDISCIPLINARY PROGRAMS AND OFFERINGS

Among West Chester interdisciplinary programs—drawing upon the resources of two or more of the college's schools—is one which leads to the bachelor's de-

gree and others which provide transcript recognition. They are
American Studies — Bachelor of Arts
Ethnic Studies — Transcript recognition
Latin American Studies — Transcript recognition
Russian Studies — Transcript recognition
Women's Studies — Transcript recognition

ACADEMIC AFFAIRS

GRADUATE PROGRAMS See page 21

PRE-PROFESSIONAL STUDY AND ADVISEMENT

West Chester State College recognizes that some students will select a career goal which will require pursuit of an academic degree after the baccalaureate, either in a graduate school or at a professional school. Students with such goals are encouraged to discuss them with appropriate members of the faculty.

Pre-Law. Students who are contemplating going on to law school should take part in the pre-law advisory program, conducted by the Department of Government and Politics, and select major and elective courses which will provide a sound foundation for later studies in law school. The program of study pursued by the pre-law student will depend in part upon the interests of the student and upon the student's breadth of competence in oral and written communication. Pre-law students may be found in a variety of major fields of study. They are encouraged to participate in the Law Club.

Pre-Theology. Pre-seminary students tend to major in Religious Studies under the auspices of the Department of Philosophy but select courses from a wide variety of fields of study in order to be better prepared to cope with the variety of secular problems which they will confront in their chosen calling. Students interested in post-graduate studies in theology and religious studies should work out their programs of study with the Department of Philosophy.

Pre-Health. Students interested in graduate studies in one of the health professions (dentistry, medicine, optometry, osteopathy, veterinary medicine) are encouraged to apply for admission to the pre-professional program which is supervised by members of the Departments of Biology and Chemistry. More about this program may be found under the pre-professional listing in the section on Programs of Study and Course Offerings later in this catalog.

INTERNSHIPS

A number of departments offer the opportunity for internships in which students may be employed in their field of interest for college credit. Among the departments at West Chester with internship programs are American Studies, Chemistry, English, Geography and Planning, Government and Politics, History, Psychology and Speech Communication and Theatre. Additional information is available under the various department listings and from the departments.

STUDENT TEACHING

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in pre-service preparation for teaching.

Students are required to file applications for student teaching one year prior to their student-teaching semester. Regular meetings for student-teaching registration are scheduled annually early in the semester. Prospective student teachers must attend one of these meetings.

Students must do their teaching in stations in school areas where the college holds a contract for student teachers.

To be eligible for student teaching, candidates must have senior standing (96 semester hours) and a cumulative index of 2.00 (C) or higher and should have completed all course work required in at least the first six semesters and satisfied competencies for the degree. Criteria for student teaching approval occasionally change. Students should contact departments for requirements.

NATIONAL TEACHER EXAMINATION

The college provides an annual opportunity for students to take the National Teacher Examination. Details may be secured from the Career Development Center.

TEACHING CERTIFICATES

Instructional I Certificate. A student who satisfactorily completes one of the college's teacher education curricula receives his degree from the college and qualifies for an Instructional I Certificate, which is issued to him by the Pennsylvania Department of Education.

In the elementary field, this certificate qualifies the holder to teach in Pennsylvania's elementary schools for three years.

In the secondary field, this certificate qualifies the holder to teach the specified subject in Pennsylvania's secondary schools for three years.

In health education, health and physical education, music education, foreign languages, and speech correction, the certificate qualifies the holder to teach the specified subject in the public schools of Pennsylvania for three years.

Instructional II Certificate. This certificate requires three years of successful teaching in the public schools of Pennsylvania under the Instructional I Certificate and the satisfactory completion of 24 semester hours of additional work of collegiate grade, completed after issuance of the baccalaureate degree. This certificate is a permanent license to teach in Pennsylvania.

All or part of the educational requirements for this credential may be obtained through approved in-service programs.

EXTENSION OF TEACHING CERTIFICATES

1. A college certificate valid for a secondary field may be extended to include the elementary field by completing a program designed by the Department of Early Childhood and Elementary Education.
2. A college certificate valid for the elementary field may be extended to include any subject of the secondary field by completing the college's field requirement for it and the related methods course.
3. A college certificate valid for a secondary field may be extended to include additional academic subjects by completing the college's field requirements for them.

MARINE SCIENCE CONSORTIUM

As a charter member of the Marine Science Consortium, West Chester, along with 17 other colleges and universities, provides opportunities for field studies in marine sciences at Lewes, Deleware, and Wallops Island, Virginia. Undergraduate and graduate courses are given each summer in five three-week sessions. The consortium offers courses in navigation, scuba diving, geology, biology, chemistry, and physics as well as cruises on two ocean-going vessels. Coastal navigation, marine ecology, and marine geophysics are examples of recent offerings. During fall and spring semesters field trips to the stations are taken by classes in biology and earth sciences. For more information, consult either the Department of Biology or Department of Earth Sciences.

OVERSEAS STUDY

The Junior Year Abroad Program, sponsored by the college, makes it possible for interested students to spend one or more semesters in France. Those interested in the French language pursue two semesters at the University of Montpellier. Students with interests in other areas of French life and culture may develop, with their departments, independent study programs or projects which can be facilitated by the West Chester faculty member in residence in Montpellier. See Department of Foreign Languages for details. The Consortium of Pennsylvania State Colleges sponsors an annual summer studies program conducted in English in Salzburg, Austria. Periodically, several of the schools offer field-study courses which take place in Europe or other overseas locations.

NATIONAL STUDENT EXCHANGE PROGRAM

West Chester is one of approximately 40 American colleges and universities, ranging from the University of Hawaii at Manoa to the Universities of Maine and South Florida, which participate in the National Student Exchange Program. The project gives students an opportunity to widen their cultural and academic horizons through a semester or a year of study in another part of the United States without paying out-of-state tuition fees or incurring such complications as credit transfers. The exchange usually takes place during the sophomore or junior years so that returning students may share their experiences with students on the West Chester campus. In order to qualify for the program, applicants must be full-time students with a 2.5 grade point average. The annual recruitment program takes place during the fall semester with placement for the following school year occurring midway through the spring semester.

THE CENTER FOR ACADEMIC INFORMATION AND ADVISING

The Center for Academic Information and Advising provides the following services for an exploratory major (undeclared major) as well as for non-degree and part-time students who have not yet declared a major:

Advisement at the time of preregistration;
Information regarding various programs offered by the college;
Guidance in and instructions for declaring a major; and
Interpretation of college, school and department regulations, rules and requirements.

The center also makes information regarding college services available to late afternoon and evening students.

THE WOMEN'S CENTER

The Women's Center is open to all women of West Chester State College, and has a particular interest in serving the needs of the returning woman student. Located in the Learning and Research Center (Room 139), the Women's Center provides a lounge area for conversation, study, and snacks, campus and community referral services; peer counseling; special interest programs (lectures, films, etc.); and a drop-in center for children. For more information call (215) 436-2122.

CONTINUING EDUCATION AND EVENING STUDIES

West Chester State College is concerned about the educational needs of everyone beyond compulsory school age who is interested in educational opportunities on either a full-time or part-time basis. This includes individuals who can be served during the regular college schedule and those who require different and convenient hours and ways to continue their education.

Persons interested in taking advantage of the various opportunities available through continuing education are enrolled in educational programs for a variety of reasons. They may be pursuing a degree, upgrading skills, or seeking personal and professional growth and enrichment.

Participants also represent a wide range of age, experience, and economic status. They include recent high school graduates who are unable to attend college full-time, older students who return to college or enroll for the first time, employed individuals looking for advancement or a change in career, and many who wish to broaden their personal horizons through study.

West Chester's Continuing Education and Evening Studies Program serves an ever widening community with an increasing variety of credit and non-credit programs and special activities designed to meet individual and organizational needs. Current programs include:

(1) A wide variety of undergraduate college credit courses are offered during the evening for persons wishing to continue their education on a part-time basis. These courses are presently offered by the college departments and are creditable toward a regular degree when proper criteria and requirements are satisfied. Requirements for undergraduate evening courses are the same as those for the regular academic program. Any reference or inquiry should be directed to: Office of Continuing Education and Evening Studies, 108 Anderson Hall, West Chester State College, West Chester, Pennsylvania 19380 (215) 436-2811.

(2) Non-college credit studies and activities are accomplished in terms of a Continuing Education Unit (CEU) which operates under the ratio of one CEU for each ten (10) contact hours. These non-credit programs are scheduled during the year to serve a greater number of individuals and organizations with more diversified programs. Admission is largely on the basis of interest, and work is ungraded but is recognized by special certificates designating CEU's earned.

(3) In-service courses which may carry graduate credit, in-service credit, or both are also offered by the college. In-service courses in teaching require the college and one or more intermediate units to cooperate in sponsorship. For information or assistance in non-credit and in-service courses contact: Education Development Center, 811 Roslyn Ave., West Chester, Pennsylvania 19380 (215) 436-2833.

The Continuing Education and Evening Studies Program operates under the

guidance of a college-wide committee. It functions under the aegis of the vice-president for academic affairs.

ACADEMIC DEVELOPMENT PROGRAMS

Along with other colleges throughout the nation, West Chester has faced its responsibilities toward the special students on the American scene; the young people from ethnic and lower-income groups, with differing cultural backgrounds, whose educational experiences and opportunities have suffered as a result of neglect and inequalities within our society.

West Chester is responding to this with it's Academic Development Programs, including an Act 101 program which accepts students who would not qualify for regular admissions and in most cases could not attend college without financial aid. The programs have demonstrated that these young people can succeed academically under the impetus of a specifically designed entry program.

Facets of the programs include academic preparation during a nine-week summer program, continued tutorial assistance and counseling support, and individualized attention to the social and cultural needs of participating students.

The program has grown steadily both in enrollment and in the scholastic achievement of its students. Those with a relatively good academic background in specific subject areas may now enroll in summer courses and earn up to nine credits. Others engage in supportive remedial programs designed according to individual needs. Additional information may be obtained from the Academic Development Programs Office, Ruby Jones Hall.

SUMMER SESSIONS

West Chester offers programs for both undergraduates and graduates during summer sessions.

Summer session catalogs, containing the course schedules, may be obtained from the director of admissions (for undergraduate studies) and the dean of graduate studies (for graduate studies).

VETERANS' AFFAIRS

Under the provisions of Title 38, West Chester State College is an accredited college for the education of veterans. The college cooperates with the Veterans Administration to see that honorably separated or discharged veterans receive every consideration consistent with either degree or non-degree admission standards.

All veterans, certain dependents of disabled or deceased veterans, and war orphans who wish to obtain educational benefits under the appropriate public laws must register with the Office of Veterans' Affairs at college registrations. Veterans must renew their registration with this office at the beginning of each subsequent semester and each summer session. The Veterans Administration requires students who are veterans to schedule at least 12 s.h. per semester in order to receive full benefits under the G.I. bill.

A representative of the Veterans Administration is in the Veterans' Affairs Office part-time, counseling and acting as liaison between students and the Veterans' Affairs Office in financial and other matters.

The Veterans' Affairs Office also advises students on Selective Service matters.

ARMED SERVICES ROC PROGRAM

The college, with the approval of the Board of Trustees, permits West Chester students enrolled in the Armed Services Reserve Officer Candidate Program (ROC) to receive six semester hours of baccalaureate credit upon successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of a student's program at the time of ROC credit transfer, these credits will be counted toward, or in excess of, the 128 credits required for a baccalaureate degree.

ROC programs are contingent upon successful completion of military requirements during vacation and the award of a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

INTERNATIONAL EDUCATION

The general objectives of West Chester's program are to promote interest in international studies and in the analysis of America and ourselves as we fit into the world community. The Office of International Education, located in the Old Library, has on file opportunities for study throughout the world. It develops a program in Austria and Mexico each summer and promotes extensive study abroad for majors in Spanish, French, and German and the office administers a program for waiver of fees for foreign students, publishes a newsletter, brings speakers and exhibits to the campus, and reviews the laws related to foreign students and international education. It has provided the opportunity for 200 students to study conversational Chinese, Portugese, Japanese, Hebrew, Polish, Vietnamese, Persian, and Greek in the past three years and has recruited six faculty members to teach abroad in as many years. The office has represented the college in the Pennsylvania Consortium for International Education, and has helped to complete reports for funding of projects in India, Pakistan, and Egypt. The American Association of State Colleges and Universities has cited West Chester for effective integration of foreign students into its curriculum. In 1977 fifty foreign students were enrolled on campus. In the past five years over two hundred West Chester students have participated in study programs in other countries.

GRADUATE STUDIES

West Chester's graduate program, introduced in 1959, has expanded rapidly and now offers study leading to Master of Education, Master of Arts, Master of Science, and Master of Music degrees. West Chester schedules its graduate courses during the fall and spring semesters in the late afternoon and evening. It is possible to pursue full-time graduate programs during the academic year and during summer sessions.

The following graduate programs are offered:

Certification and/or Master of Education

- Biology
- Counselor Education

(At West Chester State College, the master's degree is required for those seeking certification in counselor education.)

- Driver Education and Safe Living (Certification only)
- Elementary Education
- English
- French
- Geography
- German
- Health and Physical Education
- Industrial Media Education
- Latin
- Mathematics
- Reading
- Secondary Education
- Social Science
  - Concentrations in:
  - Geography
  - History
- Spanish
- Special Education
- Teaching the Emotionally Disturbed (Certification only)

Master of Arts

- Biology
- English
- French
- Geography
- History
- Mathematics
- Music
- Philosophy
- Physical Science
- Psychology
- Social Science
  - Concentrations in:
  - Anthropology/Sociology
  - Geography
  - History
  - Political Science
  - Psychology
  - Spanish
- Speech Pathology & Audiology
- Teaching English as Second Language

Master of Science

- Chemistry
- Counselor Education
- Criminal Justice
- Educational Research
- Health and Physical Education
- Instructional Media

Master of Music

- Music Education
- Music Theory or Composition
- Performance

Graduate catalogs and further information are available from the Office of Graduate Studies.

CAMPUS AND FACILITIES

DESCRIPTION OF THE CAMPUS

The college has a land area of 551 acres. North campus, an expansion of the original campus, occupies 94 acres at the southern boundaries of the Borough of West Chester. South campus, which came into full use in 1970, is a 291-acre expanse of the gently rolling countryside which Andrew Wyeth has defined in his landscapes of Chester County. In 1977 the college acquired Welkinweir, the gift of Mr. and Mrs. Everett G. Rodebaugh. The estate consists of 166 acres located 17 miles north of the main campus.

Fronting on South New street 3/4 miles south of the original college, south campus contains the massive Health and Physical Education Center, which has won national acclaim for the quality and extent of its teaching, performance, and research facilities. John A. Farrell Stadium, playing and practice fields, and tennis courts surround the center. Included in the open areas is a stretch of natural forest, part of which has been conserved as a resource for the natural sciences. Other sectors are marked for future building development.

Architecturally, north campus combines late 19th century, collegiate Gothic, and contemporary styles. Three of the college's green-hued serpentine stone buildings, which have given West Chester a unique character for many decades, are still in use. The college is also know for its magnificent old trees.

A massive building program in the last decade produced a number of major facilities and utilities which equip the college well for the needs of modern education. The Learning and Research Center, the library, Mitchell Hall (Fine Arts), and the Schmucker Science Center are major additions, along with six high-rise residence halls which span the western side of north campus.

PRINCIPAL BUILDINGS OF NORTH CAMPUS

Anderson Hall (1938) is a large five-floor classroom building, extensively renovated in 1966, which houses the offices of the dean of the School of Education; the office of the director of student teaching; the Departments of Business and Economics, Counselor Education, Elementary Education, Secondary Education and Professional Studies, Geography and Planning, Instructional Media Education, Mathematics, and Psychology, and the Advisement Center.

Elsie Oleita Bull Learning and Research Center (1968), contains the computer center, a television studio, Turk's Head Theatre, Studio Theatre, COPE/PRIDE

Project, Early Childhood Program, and the Offices of Research and Related Services, Dean of Academic Services, Registrar, and the Coordinator of Summer School.

Ehinger Gymnasium (1930) and *Hollinger Field House* (1949) are connected buildings serving the School of Health, Physical Education, and Recreation and housing the Recreational Services Program.

Francis Harvey Green Library (1966) is described on page 26.

Lawrence Center (1965), houses the Career Development Center, the Counseling Center, the campus post office, dining halls and a snack bar.

Main Hall (1974) is the newest of the classroom buildings and meets the needs of many humanities programs. The administrative offices of the School of Arts and Letters are in Main, as are the Departments of English, Foreign Languages, History, Philosophy, and Speech Communication and Theatre. A lecture hall seating 400 and the language laboratory are major features of Main, which stands on the grounds of the college's original building, Old Main.

Maintenance Building (1968) is a multi-purpose building accommodating the Plant Maintenance and Department of Law Enforcement offices, various maintenance shops, the Centrex Automatic Telephone Exchange, and the fire detection center.

Lloyd C. Mitchell Hall (1970), a fine-arts classroom building, is the location of the Art Department and its exhibition galleries. It also provides additional classrooms, practice rooms, and offices for the School of Music whose building (Swope Hall) is adjacent to Mitchell.

Ruby Jones Hall (1899), contains the offices of Graduate Studies, dean of the School of Social and Behavioral Sciences, and the Department of Government and Politics.

Old Library (1902), a neoclassic serpentine building, contains the Bureau of Educational Media Services, the Printing-Copying Center, College Information and Publications, the Social Welfare Center, the Department of Anthropology, Sociology, and Social Welfare, the Office of International Education, and the Chester County Instructional Materials Service.

Philips Memorial Hall (1925) is an outstanding example of collegiate Gothic which houses the Office of the President, the Office of the Vice-President for Administration and Fiscal Affairs, the Financial Management Division, the Affirmative Action Office, Philips Memorial Library, the college's largest auditorium, the faculty lounge, and conference rooms.

Recitation Hall (1892), a serpentine building, holds classrooms, the Department of Reading, the Reading Clinic, the Department of Nursing, the Department of Music Education, and the Individual Learning Service Center.

Reynolds Hall (1871), a former farm house, is occupied by the College Health Service and the administrative offices of the Division of Facilities.

Schmucker Science Center (1968), a two-phase center including the biological sciences and physical sciences buildings, contains classrooms and laboratories, a planetarium, astronomical observatory, television studio, an auditorium, and the Darlington Museum and Herbarium. The administrative offices of the School of Sciences and Mathematics are in Schmucker.

Special Education Building (1960) contains classrooms, a clinic area for special education, and the Departments of Special Education and Urban Education.

Swope Hall (1959) houses the School of Music, including offices, classrooms, an auditorium, choral and instrumental rooms, a music library, and a music listening room.

Sykes College Union Building (1975), of modern design, contains the Offices of the Vice-President for Student Affairs, Student Development, Student Housing, Cultural Affairs and College Events, Student Activities, and the Intracollegiate Governmental Association. The college book store, conference rooms, lounges, snack bar, the college newspaper and the college radio broadcasting studio are also found in Sykes.

Tanglewood, a historic and handsome house with beautiful grounds, is the residence of the president of the college.

Residence Halls include Killinger (1959), McCarthy (1960), and the following highrise halls; Goshen, Ramsey, and Tyson (1966); Sanderson (1969); and Schmidt and Wayne (1971).

A boiler plant, water pedisphere, garage, and housekeeping building, along with several annex houses, complete the physical plant of north campus.

PRINCIPAL STRUCTURES OF SOUTH CAMPUS

Health and Physical Education Center (1970), contains a one-acre gymnasium, divisible into six pneumatically sealed gymnasiums; a three-point natatorium; multi-purpose teaching stations; research facilities; administrative offices; 16 lecture classrooms; two dance studios, a physiological research laboratory; two physical therapy rooms; two sauna baths, and other facilities.

John A. Farrell Stadium (1970) provides spectator seating for 7,500 at varsity football, soccer and track events, a press box, lighting for night games, and concessions and rest areas.

Athletic Field Complex (1969-70) includes playing and practice fields for football, hockey, soccer, lacrosse, and baseball; tennis courts; night lighting; and parking for 1,000 cars.

ROBERT B. GORDON NATURAL AREA FOR ENVIRONMENTAL STUDIES

The college has conserved a large area of natural woodlands, located on south campus, and utilizes it for several kinds of outdoor studies in the natural sciences. Dedicated in 1973, the area was named for Robert B. Gordon, chairperson of the college's Department of Science from 1938 to 1963.

WELKINWEIR

West Chester's most recent land acquisition is Welkinweir, the 166-acre, northern Chester County estate which was presented to the college as a gift by Mr. and Mrs. Everett G. Rodebaugh.

The stone mansion at Welkinweir dates back to 1750 with an 1800 addition as well as a wing added in 1940. Filled with a remarkable collection of historically valuable books, antiques and objects d'art, the residence is now used for concerts, seminars and conferences.

Highlights from among the contents include numerous authenticated Chester County pieces of furniture, an E.M. Skinner Automatic Pipe Organ (one of only five still in existence in working order in the country), a Mason & Hamlin Piano, antique clocks, an English silver collection, and a variety of oriental rugs.

Welkinweir's grounds contain a six-acre, man-made lake and seven ponds; lawns; forested areas; and unusual plantings. Access to the Appalachian Trail is possible from the Horseshoe Trail which passes through the property.

FRANCIS HARVEY GREEN LIBRARY

The Francis Harvey Green Library provides an excellent environment for study and research. With the opening of a new six-story addition in the fall of 1976, the library has added to and greatly expanded its facilities. The total complex will house one-half million books. It is furnished with a variety of seating areas including individual study carrels; faculty, graduate, and undergraduate studies and lounges; typing rooms; group studies; seminar rooms; and general reading areas.

The library has an increasingly important role in both teaching and research with its growing collection of more than 365,000 volumes and subscriptions to over 2600 journals. Augmenting this general collection with more than 300,000 titles in the micromedia collection including books, periodicals, newspapers and doctoral dissertations along with the facilities to read this material

Other noteworthy collections can be found in the library complex. An extensive holding of courses of study and textbooks and a variety of audio-visual materials are held in the instructional materials center. Also available are separate collections for children's literature, government documents, and maps.

The Special Collections Room holds the Chester County Collection of scientific and historical books; the Normal Collection, publications by and about the faculty and alumni; the Ehinger Collection (a collection of historical books on physical education); the *Biographies of the Signers of the Declaration of Independence* by John Sanderson; and the Shakespeare Folios. The Philips Autographed Book Library is kept in a specially designed room in the Philips Memorial Building.

West Chester students may take advantage of the library's many services such as reference, computerized on-line literature searching, interlibrary loan, and photoduplication. To add to the cultural enrichment of the college community the library schedules informative displays and art exhibits throughout the year.

MUSIC LIBRARY

The Music Library is part of the college library. Located in Swope Hall it houses an extensive collection of music, one of the largest of its kind in the Commonwealth of Pennsylvania. Its rapidly growing holdings include 18,000 scores (historical editions, collected works, opera, keyboard, vocal, and instrumental music) and more than 16,000 33-1/3 rpm. recordings (classical, folk, non-western, popular). Listening facilities for forty persons are available within the library.

ART COLLECTIONS

The college's permanent art collection is made up primarily of gifts from interested art patrons, senior class purchases, and gifts from the alumni. A different selection from the collection is placed on view each year in the galleries in Lloyd C. Mitchell Hall. The Intracollegiate Governmental Association's permanent art collection also has a growing collection of art works which are on display at various times in both Mitchell Hall and the Francis Harvey Green Library. The IGA collection consists of a number of important works such as the water color, "Andress Place," by Andrew Wyeth.

HISTORICAL PROPERTIES

Among a number of historical properties which the college inherited from the Chester County Athenaeum, a literary society of the early 19th century, are letters to Anthony Wayne from George Washington, Israel Putnam, Benedict Arnold, and others. The college also possesses a mahogany clock which belonged to Benjamin Franklin and Anthony Wayne's telescope. Both were acquired from the West Chester Academy, forerunner to the present college.

DARLINGTON HERBARIUM

The Darlington Herbarium, housed in Schmucker Science Center, is one of the highly regarded historical collections of dried plant specimens in the East. Among the 30,000 specimens are plants collected by such famous explorers and botanists as Captain John Fremont, Thomas Nuttall, Sir William Hooker, C. S. Rafinesque, and George Engelmann. More than 200 collectors from America's formative years of 1820 to 1850 are represented. The herbarium was the work of Dr. William Darlington (1782-1863), a member of the West Chester Cabinet of Science. Dr. Darlington was eminent in West Chester as a physician, educator, banker, businessman, historian, and botanist. His plants, however, were his first love. A state park has been established in northern California to preserve a rare species of insectivorous plant named in his honor—*Darlingtonia.*

CHESTER COUNTY INTERMEDIATE UNIT INSTRUCTIONAL MATERIALS SERVICE

West Chester is headquarters for this center, which makes more than 5,700 films available to the 138 schools it serves The center also maintains the college film library and promotes effective use of instructional materials and technology in the 12 affiliated school districts. College faculty and student teachers may make use of these facilities.

THE EDUCATIONAL DEVELOPMENT CENTER

Cooperatively established and maintained by Cheyney State College, West Chester State College, and the Pennsylvania Department of Education, the center is one of a network throughout the Commonwealth in which applied research findings are used to develop innovative products and programs to improve the educational process.

This facility assumes a primary responsibility implementing Pennsylvania's effort to improve urban and bilingual education. It is involved in the coordination and evaluation of a statewide Urban Elementary School Network and the Pennsylvania portion of an Interstate Urban Elementary School Network (also embracing schools in New York and New Jersey). The center provides services designed to (1) identify curriculum needs, (2) improve existing education programs, (3) design innovative pilot and exemplary programs, (4) assist in grants to support these projects, and (5) disseminate new and developing programs and concepts.

The Educational Development Center is Pennsylvania's means of liaison among state, college, and community educational and education-related agencies and institutions.

COMPUTER CENTER

The Computer Center at West Chester serves a variety of users both on and off

campus. Many of the college's administrative functions such as registration, grading, class lists, and billing depend heavily on computer operations.

More important, the college views the computer as a vital instructional and research tool. The Computer Center offers the student and faculty users time-shared, remote access to its computers. By the use of terminals scattered about the campus, more than 70 users can simultaneously be served "on-line" while others can operate in the "batch" mode.

The availability of the computer, 24 hours a day, 7 days a week, combined with the ready availability of terminals—even in the dorms—makes computing a handy tool for the West Chester community.

The academic functions are supported by the ready availability of scientific languages and software which can be easily used, even by those without computer experience. This includes a variety of statistical software.

In addition to the courses designed to teach computing, the computer as a tool is utilized in many other classes, and systems have also been developed by some departments for remedial and individual study programs. The Computer Center will continue to work with faculty in developing new roles for the computer in the educational process here at West Chester.

BUREAU OF EDUCATIONAL MEDIA SERVICES

The Bureau of Educational Media Services offers a variety of services to the undergraduate and graduate programs of the college. They are available to the faculty, administration, and students in the following areas:

1. Graphic arts includes printing, duplicating, copying, photography, illustrating, mounting, lettering, and projectual production.
2. Television offers live programming from commercial and public broadcasting stations, video taping and replay, studio productions, and portable television equipment for remote productions.
3. The Media Center offers equipment and material distribution to the classroom. This includes the renting of films and other related materials.
4. Media programming includes carrels and materials for individualized instruction.
5. Technical services of a non-instructional nature includes the functions of the Student Electronic and Television Services (SETS).
6. College Information serves as the clearing house for all publicity and advertising on college activities as well as the achievements of members of the college community.
7. Publications prepares the college catalogs, brochures, campus maps, and other major printed material not produced in the Printing-Copying Center.
8. Photography includes services for instructional and administrative purposes.

ADMISSION TO WEST CHESTER

West Chester State College evaluates its applicants on the basis of scholarship, character and potential for achievement in the programs to which they apply. The college operates on a rolling admissions policy so that applications are reviewed as received and applicants can be notified as quickly as possible of their status. Qualified students of any age as well as faculty and staff are welcomed at West Chester from all racial, religious, ethnic and socio-economic backgrounds. Studies may be pursued on a full or part-time basis.

GENERAL REQUIREMENTS FOR ADMISSION

1. Graduation, with satisfactory scholarship, from an approved secondary school or approval by the Credentials Evaluation Division of the Pennsylvania Department of Education.
2. Either a satisfactory score on the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board (CEEB) or satisfactory scores on the tests given in the American College Testing Program (ACT).

HOW AND WHEN TO APPLY FOR ADMISSION

For application forms and instructions, send the request form at the back of this catalog to the director of admissions.

Applicants for a fall semester are urged to begin the application procedure immediately after their junior year of secondary school. If spaces are available, the director of admissions will accept applications into the spring of the year in which admission is desired.

Applicants for a spring semester should submit the request form by November 1. They must take their SAT or ACT no later than July 31.

Applicants for the nursing program are admitted only for the fall semester.

Last Day for Admission of New Freshmen. Completed applications generally should be in the Office of Admissions by July 1 for a fall semester or December 1 for a spring semester. If enrollment quotas are filled before these dates, admissions will be closed.

Notice of Decisions. Candidates will hear from the director of admissions as soon as possible after decisions are reached. The applicants' secondary schools will also be notified.

ARRANGING FOR TESTS

Information about CEEB or ACT may be obtained from guidance counselors or the Office of Admissions.

POLICY FOR DEFICIENT SCORES

Students whose scores are low on either the Verbal Section of the SAT Test or the English section of the ACT tests are required to take a basic English course.

ADMISSION REQUIREMENTS IN SPECIFIC FIELDS

Health and Physical Education and Health Education. See School of Health, Physical Education, and Recreation for additional admissions requirements.

Mathematics. Mathematics majors must present three secondary units of mathematics, including algebra and plane geometry.

Music. See School of Music for additional admissions requirements.

Nursing. See Department of Nursing.

PHYSICAL EXAMINATION REQUIREMENTS

Except for the health and physical education programs, applicants are not asked to submit a health reference until they have been accepted for admission. Upon acceptance, they will receive a form for the necessary health examination. Students who are handicapped or medically disabled may be requested to seek additional advising or counseling for career and course selections.

Health and physical education majors. A satisfactory medical report is required for admission to the health education and health and physical education programs. The necessary form will be supplied by the School of Health, Physical Education, and Recreation.

POLICY ON EARLY ADMISSION

In exceptional circumstances, students with superior academic qualifications and unusually mature personal development are admitted as freshmen upon completing their junior year of secondary school. Students who, in the opinion of their guidance counselor, warrant consideration for early admission may obtain more information from the director of admissions. The closing date for application is June 1.

ACCEPTANCE OF AN OFFER OF ADMISSION

Each applicant who accepts an offer of admission to the college must sign an acceptance form which includes the following statement: "I hereby submit myself to the jurisdiction of the college and agree to be governed by the rules and regulations of the college now existing or to be adopted during the period in which I am enrolled as a student."

TRANSFER STUDENTS

Students who previously enrolled, no matter how briefly, in another school of collegiate rank after graduation from high school are classified as *transfer students.* Students whose cumulative grade-point average is less than 2.00 will not be considered for admission.

All application procedures must be completed and in the Office of Admissions by July 1 for a fall semester or December 1 for a spring semester. If enrollment limits become filled before these dates, admissions will be closed.

APPLICATION PROCEDURE FOR STUDENTS TRANSFERRING FROM AN ACCREDITED INSTITUTION

1. File a transfer application form, available from the Office of Admissions.
2. See that the director of admissions receives:
   a. Two official transcripts of records from all institutions attended, with honorable dismissal shown. If preliminary (incomplete) transcripts are submitted, the student must see that completed transcripts are filed later.
   b. Mid-term grades, if the student enrolled elsewhere in the fall semester and applying to West Chest for the following spring semester.
3. If a student has completed less than 30 semester hours of credit he or she must supply SAT or ACT scores and a high school transcript.

Upon acceptance, transfer students are given a health report form which must be completed. Admission is contingent, finally, upon a satisfactory health reference and successful completion of current course work with at least a C average as documented by transcripts of all work attempted or completed.

Transfer students should note the paragraph titled "Maintenance of Minimum Standards" in Academic Policies and Procedures.

Transcripts will be evaluated in accordance with the policies of the school and department to which the student seeks to be admitted. After the student has been admitted, he or she should work out an acceptable program of study in close consultation with an advisor in the major department.

COLLEGE POLICIES FOR STUDENTS TRANSFERRING FROM A NON-ACCREDITED INSTITUTION

Applicants from collegiate institutions (including community colleges and junior colleges) which are *not accredited* by one of the six regional associations in the United States will be considered for admission if the applicant's cumulative index is 2.00 (C) or better.

The evaluation of courses listed on transcripts from an institution not accredited by one of the six regional associations will be made by the student's major department in consultation with the school dean and the dean of academic services. All evaluations are subject to review by the vice-president for academic affairs.

ADMISSION OF COLLEGE GRADUATES SEEKING CERTIFICATION

College graduates who wish to obtain teaching certification should consult with the School of Education and file an application for undergraduate admission in the Office of Continuing Studies. Two complete official transcripts must be sent to the Office of Admissions from each college attended.

READMISSION OF FORMER STUDENTS

Students who have withdrawn from West Chester for acceptable reasons may ask the Office of Admissions for an application for readmission. Those who have

attended any institutions of higher learning since leaving West Chester must request those institutions to forward transcripts of their records to the Office of Admissions.

Students intending to enroll in student teaching in the first semester of readmission must file an application for student teaching with the director of student teaching at least four months before their expected readmission.

All readmission applications generally are to be filed by June 1 for the fall semester or December 1 for the spring semester. If enrollment quotas become filled before these dates, admissions will be closed.

FEES AND EXPENSES

Fees and Expenses are subject to change without notice.

Unless otherwise specified, fees are paid by check or money order payable to: Commonwealth of Pennsylvania. Your canceled check or money order record serves as your receipt.

UNDERGRADUATE FEES

(as of Spring semester, 1979)

BASIC FEE FOR LEGAL RESIDENTS OF PENNSYLVANIA

Full-time students (between 12-18 semester hours)	$475.00 per semester
Extra charge for semester hours over 18	$ 39.00 per semester hour
Part-time students (11 semester hours or less)	$ 39.00 per semester hour

BASIC FEE FOR OUT-OF-STATE STUDENTS

Full-time students (between 12-18 semester hours)	$890.00 per semester
Extra charge for semester hours over 18	$ 71.00 per semester hour
Part-time students (11 semester hours or less)	$ 71.00 per semester hour

HOUSING FEE

The housing fee for students living in campus residence halls is $537 per semester and covers room ($315) and meals ($222) while the college is in session. The college charges commuting students $222 per semester for meals in the dining hall. These fees are subject to annual adjustment.

COMMUNITY CENTER FEE

Students pay a community center fee based on the number of credits carried:

1 through 6 credits	$ 2.50 per semester
7 through 9 credits	$5.00 per semester
10 credits or more	$10.00 per semester

The community center fee is not refundable.

CREDIT BY EXAMINATION

A fee of $25.00 is paid at the Financial Management Division at the time the examination is scheduled.

ROOM RESERVATION FEE

A room reservation fee of $50 is required late in the spring semester, of all currently enrolled students who apply to the office of the associate deans of students for residence hall reservations for their next academic year. These applications must be made during a three-day period announced each spring in campus publications. The room reservation fee is not *refundable* but is credited to the housing fee for the following fall semester. The room reservation fee must be paid on the day of application by check or money order drawn to the "Commonwealth of Pennsylvania."

FINANCIAL OBLIGATIONS

Students and their parents or guardians should observe that all fees and expenses are subject to change without notice and that, since the acceptance of a student is for a semester, financial obligations are for a semester.

The college may authorize deferred payments to worthy upperclassmen who are full-time students and whose circumstances require an installment payment schedule. Requests for the installment payment schedule should be sent to the Student Accounts Office. However, entering new students are expected to make full payment of fees and expenses by the registration deadline unless they have supplementary scholarship aid.

ADVANCE PAYMENT OF HOUSING AND BASIC FEES

All students are required to pay their housing and basic fees in advance of each semester. The college sends bills for these fees preceding each semester. If payment is not made within the stipulated period, the student is dropped from the admissions list or the rolls of the college; loses all privileges and priorities, including his room reservation; forfeits his room reservation fee and incurs a late fee.

Payments normally fall due each academic year as follows:

Fall semester	Early in July
Spring semester	Early in December

Any change in these dates will be shown on fall or spring semester invoices. Checks should be made payable to the "Commonwealth of Pennsylvania" and mailed to:

Students Accounts Office
Financial Management Division
West Chester State College
West Chester, Pa. 19380

APPLICATION FEE FOR NEW STUDENTS

An application fee of $10 is required of all applicants. It is not refundable under any circumstance and is not credited to a student's account. The application fee must be paid by cashier's check or money order (not personal check).

ACCEPTANCE FEE FOR NEW STUDENTS

The student accepts an offer of admission by paying an additional $75 as a guarantee of his intention to enter the college in the semester indicated. This fee is not refundable, but upon enrollment is credited toward the basic fee. If, before enrollment, the college finds it necessary to revoke admission on the basis of an unsatisfactory health report from the student's physician, the acceptance fee will be refunded. The acceptance fee must also be paid by cashier's check or money order.

DAMAGE FEE

Students are held responsible for damage, breakage, loss, or delayed return of college property and will be charged for any damage other than that occurring from normal use or deterioration. If a student damages college property while using an appliance not provided by the college, he is held liable for the repair of the college property.

PRIVATE MUSIC INSTRUCTION FEES

Every student whose program requires private lessons pays a basic semester fee of $45 to cover all half-hour lessons in the curriculum. When hour lessons are required, the fee is $90. Elective and makeup lessons are billed at the rate of $45 per semester for each one-half hour of instruction per week.

Students pay no extra fee for the use of practice pianos. They are, however, charged at mid-semester for:

1. Pipe organ for practice, one period each weekday, $36 per semester.
2. Band or orchestra instruments, $6 rental per semester.

HEALTH CENTER FEE

A health center fee of $5 is required of all students. The health center fee is not refundable.

MISCELLANEOUS FEES

Record transcript fee of $1 is charged to students for the second and all subsequent transcripts of records. The $1 fee also applies to those not currently enrolled.

Late registration fee of $25 is required of students completing registration after the official registration deadline.

Late payment fee of $5 is charged for overdue payments required during the semester.

Transient lodging fee of $4.50 for double occupancy, $5.50 for single occupancy, is charged for overnight guests.

Transient meals fee. Breakfast, $1.00. Lunch, $1.45. Dinner, $1.80.

Additional housing fee of $5 per week is required when one person is permitted to occupy a double room. (This privilege is given only in summer sessions.)

Auditing fee. Students auditing a course are charged the part-time basic fee of $39 per semester hour if they are residents of Pennsylvania, or $71 per semester hour if out-of-state students.

Dishonored Check Fee of $10 applies to stopped payment checks and checks drawn for insufficient funds. The late registration fee of $25 also applies as mentioned above.

WITHDRAWAL PROCEDURE

Students who wish to withdraw from the college after paying their semester

fees must follow the official withdrawal procedure. This procedure begins in the Office of the Registrar, Room G-40, Learning and Research Center.

POLICIES ON REPAYMENTS AND REFUNDS

Refunds cannot be made after the close of the semester. Initiate refund requests immediately by contacting the Office of the Registrar or the Student Accounts Office on the second floor of the Philips Memorial Building.

Basic fee refunds

First through second week: Full-time students who withdraw completely forfeit $75.00.

Part-time students who withdraw completely and students who drop courses are eligible for 80% refund.

Third week: All students—70% of basic fee refundable.
Fourth week: All students—60% of basic fee refundable.
Fifth week: All students—50% of basic fee refundable.
After fifth week: No refund on basic fee.

The community center fee is non-refundable.

Housing refunds

The $50.00 room deposits are not refundable. If a student registers as a resident student and changes to commuter status before the end of the sixth week of classes, he will be eligible for a one-half refund of his room rent. After the end of the sixth week of classes there is no refund on room rent.

Meal Refunds

The fee for meals may be refunded on a weekly prorated basis. Contact Student Accounts Office on the second floor of the Philips Memorial Building for procedure.

In cases of personal illness, certified by an attending physician, or for other reasons which may be approved by the Board of Trustees, the college will refund the portion of the housing and meal fees covering the number of weeks remaining.

Repayment of the application fee or acceptance fee will not be made under any circumstances.

Repayments will not be made to students who are temporarily or indefinitely suspended.

PLEASE REFER TO THE SUMMER UNDERGRADUATE CATALOG FOR SUMMER SESSION FEES AND POLICIES.

BILLING ADDRESS CHANGES

If a student billing address changes during enrollment at the college, the new address must be given to the Student Accounts Office on the second floor of the Philips Memorial Building. This will avoid delayed delivery of registration materials and grades.

A change in domicile from out-of-state to Pennsylvania requires a notarized affidavit. For information on this procedure, contact the Student Accounts Office at (215) 436-2552.

DETERMINATION OF LEGAL RESIDENCE

A student who does not have a Pennsylvania domicile is classified as out-of-state and pays fees as a non-resident student. The amounts for the activity fees, room and meal charges, and costs of books and supplies, however, are the same as for students who are classified as Pennsylvania residents. Domicile is defined as the place where one intends to and does in fact permanently reside.

Determination of Pennsylvania domicile is made on the basis of documentary evidence, statements from disinterested persons, and the presumptions set forth below.

1. Continuous residence in Pennsylvania for a period of 12 months prior to registration creates a presumption of domicile.
2. A person attempting to establish domicile must have citizenship or proof of intention to become a citizen or must have been admitted to the United States on an Immigrant Visa.
3. A minor (i.e., person under 21) is presumed to have the domicile of parent(s) or a guardian.
4. A member of the Armed Forces who was domiciled in Pennsylvania immediately preceding entry into government service and who has continuously maintained Pennsylvania as a legal residence will be presumed to have a Pennsylvania domicile.
5. A student receiving a scholarship or grant dependent upon domicile from a state other then Pennsylvania is not domiciled in Pennsylvania. Examples of factors which may provide convincing documentary evidence include purchase or lease of a permanent independent residence, payment of appropriate state and local taxes, transfer of bank accounts, stock, automobile, and other registered property to Pennsylvania, driver's license, agreement for permanent full-time employment, membership in organizations such as social, civic, political, athletic, or religious, voter's registration, statement of intention to reside indefinitely in Pennsylvania, statement from parent(s) or guardian setting forth facts to establish a minor's financial independence, and separate residence as documented by affidavit and/or copy of income tax return.

A student may challenge residence classification by filing a written petition with the Secretary of Education in Harrisburg where the decision on the challenge shall be final.

DELINQUENT ACCOUNTS

No student will be enrolled, graduated, or given a transcript of his record until all charges due at the particular time are paid.

PARKING FEE

The college collects a parking fee of $20.00 per year from the students eligible to utilize on-campus parking facilities. For details, consult the automobile regulations which accompany the fall semester student bills.

ADDITIONAL COSTS

INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION FEE

Student Government Fee. $35 per semester is collected from all full time undergraduate students, and $11 per semester from all undergraduate part-time stu-

dents. This fee is administered through a cooperative organization under regulations approved by the Board of Trustees. It covers the cost of the extra- and co-curricular programs in such areas as athletics, various musical organizations, lectures, entertainment, and student publications. $1 represents government dues and will go to the Residence Hall Association (RHA) or Off Campus Student Association (OCSA) depending upon residency status. $1 goes to Commonwealth Association of Students (CAS)

The IGA fee must be paid promptly upon receipt of the bill, which covers the semester. Checks should be drawn to IGA and must be mailed with registration materials.

IDENTIFICATION CARDS

All students—both part-time and full-time—must secure an identification (ID) card from IGA at a cost of $1, either during orientation or at the beginning of a semester. The charge for replacement of a lost card is $5.

LIBRARY CARDS

The student ID card serves as a library card.

GRADUATION FEE

A graduation fee is required of all degree candidates. No degree will be granted until this fee is paid. The bill is presented when the student files Notice of Intention to Graduate. It must be paid to IGA by check or money order drawn to "Commencement Fund."

GYMNASIUM UNIFORMS

Men students in the B.S. in Health and Physical Education degree program are required to buy athletic and gym outfits in their first semester and again in their third semester.

Women Students in the B.S. in Health and Physical Education degree program must buy uniforms for their first semester. Order forms are sent to each applicant upon her acceptance by the college. A slight additional expenditure is required of all sophomores.

All other students are required to purchase a regulation gym outfit. For the women students this is a one-piece suit available at the College Bookstore. For men the outfit includes a pair of white shorts, a white T-shirt, white socks, and canvas gym shoes.

SWIM SUITS

Men and women students are required to have a regulation nylon tank suit, available at the college bookstore.

SPECIAL COSTS FOR NURSES

At the end of their sophomore year, students in the B.S. in Nursing program must purchase uniforms. Throughout enrollment, students in this program must carry liability insurance.

FINANCIAL AID

The purpose of the West Chester State College financial aid program, which is administered by the director of financial aid to students, is to provide financial assistance to students who can benefit from further education, but who cannot do so without such assistance. Financial assistance consists of scholarship or grant assistance and self-help (loans and employment) which may be offered singly or in various combinations to students who demonstrate financial need. Financial need is the difference between the cost of attending West Chester State College and the financial resources available to the student.

The main responsibility for meeting the student's educational expenses rests with the family. Parents are expected to contribute according to their means, taking into account their income, assets, number of dependents, and other relevant information. Students are expected to contribute from their own assets and earnings, including appropriate borrowing against future earnings.

Financial assistance will be offered only after determination that the resources of the family are insufficient to meet the student's educational expenses. The amount of assistance offered will not exceed the amount needed to meet the difference between the student's total educational expenses and the family's resources.

All documents, correspondence, and conversations among the aid applicant, his or her family, and student aid officers are confidential and entitled to the protection ordinarily arising from a counseling relationship.

Each applicant for financial aid must:

(1) Be accepted for admission as at least a half-time student at the college, or, in the case of a student already attending the college, enrolled and in good standing as at least a half-time degree student.
(2) Submit an application for financial aid to the Director of Financial Aid, Room 103 Lawrence Center, West Chester State College, West Chester, Pennsylvania, 19380. The necessary form will be included with the admissions material sent to a student after he or she has been formally accepted at West Chester.
(3) Submit a Financial Aid Form (FAF) by May 1 to the College Scholarship Service, P.O. Box 2700, Princeton, New Jersey, 08540. The FAF may be obtained from high school guidance offices, the College Scholarship Service, or the director of financial aid at West Chester State College. The College Scholarship Service code number for West Chester State College is 2659.
(4) Submit, in the case of a transfer student, a summary of prior financial aid awards to the director of financial aid. The aid summary form can be obtained from the college's Office of Financial Aid.
(5) Submit the official copy of the Federal Basic Educational Opportunity Grant Student Eligibility Report to the director of financial aid.

Please note that submission of the above forms does not automatically entitle a student to receive financial aid. The Office of Financial Aid follows the guidelines established by the federal government for awarding student aid.

Because the family's financial status may change from year to year, it is necessary for students to apply for financial aid each academic year.

Unless otherwise specified, requests for scholarships, grants, loans, and employment opportunities described herein should be made to the Director of Financial Aid, West Chester State College.

SAMPLE COLLEGE BUDGET (1978-79 ACADEMIC YEAR) FOR A FULL TIME DORMITORY STUDENT

IN STATE STUDENT		OUT OF STATE STUDENT
Basic Course Fees	950	1780
Room	630	630
Board	444	444
Sykes Student Center Fee	20	20
Student Government Fee (I.G.A.)	70	70
Books, Supplies, Personal & Misc.	750	750
Total	2864	3694

NOTE: (1) Full time commuter students should subtract the cost of room and board from the above budgets.
(2) Part time students are referred to the fees and expenses section of the catalog.
(3) Approximately 51% of our students receive financial assistance.
(4) Fees and expenses are subject to change without prior notice.

GRANTS, SCHOLARSHIPS, AWARDS, AND LOANS

FEDERAL GRANTS

BASIC EDUCATIONAL OPPORTUNITY GRANT PROGRAMS (Basic Grants). A federal program which makes funds available to eligible students attending approved colleges and other post-high school educational institutions.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG) PROGRAM. A federal program for students of exceptional financial need who, without a grant, would be unable to continue their education

STATE GRANTS

STATE HIGHER EDUCATION GRANTS TO VETERANS. The Commonwealth of Pennsylvania has enacted legislation to provide State Higher Education Grants (formerly called state scholarships) for qualified veterans who need financial assistance to complete approved programs of post-secondary education. All veterans will be considered for state grant assistance without regard to the financial data of their parents or guardians. Qualified veterans are eligible for a grant equal to the cost of their tuition and fees not to exceed a maximum grant of $1,500 at a Pennsylvania school or $800 at a non-Pennsylvania school.

THE STATE HIGHER EDUCATION GRANT PROGRAM

The State Higher Education Grant is intended to provide grant aid to Pennsylvania residents who are in need of financial aid to attend a postsecondary school as full-time, undergraduate students. The amount of the state grant for those who qualify varies from $100 to $1500 at a Pennsylvania school and normally from $100 to $600 at a school located outside of Pennsylvania.

LAW ENFORCEMENT EDUCATION PROGRAM GRANTS

Grants not to exceed $400 per semester are available to students who are eligible personnel of publicly funded law enforcement agencies of federal, county, municipal, and state government enrolled in or accepted for enrollment on a full time or part-time basis in the "Criminal Justice Program" and who agree to remain in full-time criminal justice employment.

SCHOLARSHIPS AND AWARDS

THE ALUMNI ASSOCIATION OF WEST CHESTER STATE COLLEGE SCHOLARSHIP FUND. A scholarship fund was established by the Alumni Association of West Chester State College in 1974 to benefit the students of West Chester State College. The criteria for selection are scholarship, leadership, character, and need. In addition, the applicant must be enrolled in the sophomore or junior year. Applications are available annually on the 1st of February from the director of financial aid or the executive director of the Alumni Association. The awards are made on Alumni Day each year and are applied to winner's course fees for the next academic year. A minimum of twenty-two scholarships are awarded each year, at least twenty for $100.00 and two for $250.00.

LAURY SAMUEL BROKENSHIRE SCHOLARSHIP. This $100 scholarship is presented annually as a memorial to Laury Brokenshire, '59, by his parents, Mr. and Mrs. James R. Brokenshire, of Reading. It is awarded to an outstanding junior class music student selected by the School of Music faculty.

ROBERT L. CARL MEMORIAL KEYBOARD SCHOLARSHIP. Two $150 scholarships to incoming freshman students who are keyboard majors, in honor of the late Robert L. Carl, former chairperson of the Department of Keyboard Music, who taught piano at the college from 1946 until 1971. Applications are made to the dean of the School of Music.

CHEMISTRY DEPARTMENT SCHOLARSHIP. A $500 award available to a full-time student majoring in chemistry. Applications are made to the Department of Chemistry.

DR. ROBERT E. DRAYER MEMORIAL AWARD. An annual award for the senior who graduates with the most distinguished record in history, in memory of Dr. Robert E. Drayer, assistant professor of history, who died in 1968. The Department of History selects the recipient.

FACULTY SENATE SCHOLARSHIP FUND. Annual awards of $200 each are made each May to undergraduate students. Awards are made on the basis of academic ability and financial need. Applications are made to the Faculty Senate Scholarship Fund.

FRESHMAN STRING SCHOLARSHIP. A competitive audition scholarship in the amount of $400 awarded to an incoming freshman music student. Applications are made to the dean of the School of Music.

ARTHUR E. JONES MEMORIAL SCHOLARSHIP. Talent in the vocal-choral area and scholarship are among considerations for this $400 annual award to a music student in remembrance of Dr. Arthur E. Jones, former chairman of choral music. To be eligible, a student must be a junior who has completed a course in choral conducting. The Department of Vocal and Choral Music selects the recipient.

WALKER HAMILTON, JR. MEMORIAL SCHOLARSHIP. As a memorial to Walker Hamilton, Jr., an associate professor of English who died in 1968, the Department of English annually makes an award to an academically superior English major. The recipient must have completed three years at West Chester.

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION SCHOLARSHIP. Three $300 scholarships awarded to any sophomore, junior or senior student in health, physical education and recreation. Applications are made to the dean of the School of Health, Physical Education, and Recreation.

FRITZ K. KREUGER MEMORIAL VOICE SCHOLARSHIP. Two $150 scholarships for incoming freshman students who are vocalists in honor of the late Fritz K. Krueger, who taught in the Department of Vocal and Choral Music from 1961 until 1971. Applications are made to the dean of the School of Music.

LEWIS H. MARSHALL AWARD. An annual award to a senior in the School of Social and Behavioral Sciences whose leadership, professional promise, and academic achievement are outstanding. It is made available by the Chester County Association to Township Officials, and the awardee is selected by a committee of faculty from the School of Social and Behavioral Sciences.

S. POWELL MIDDLETON MEMORIAL SCHOLARSHIP. An annual $300 award to a freshman music student for talent and achievement on an orchestral instrument. The award honors the former conductor of the College Symphony Orchestra who died in 1970.

LLOYD C. MITCHELL PIANO SCHOLARSHIP. This $100 scholarship was established in honor of Dr. Lloyd C. Mitchell upon his retirement in 1971 after 35 years service at the college, including 20 years as chairman of the Music Department and dean of the School of Music. It is awarded annually to a freshman music student selected by a piano faculty jury. Applications are made to the dean of the School of Music.

ROBERT M. MITTEN SCHOLARSHIP FOUNDATION. An annual $500 scholarship for a major in health and physical education, given in memory of Dr. Mitten, former professor of health and physical education and the college football coach, who died in 1972.

CLIFTON E. MORGAN MEMORIAL AWARD. Presented annually to a West Chester student as a memorial to a member of the Department of History, who died in 1974.

MICHAEL MOROCHOKO MEMORIAL PIANO AWARD. The Department of Keyboard Music presents a $200 scholarship annually to an outstanding junior music student majoring in piano as a memorial to Michael Morochko, father of a former student.

MUSIC SOPHOMORE SCHOLARSHIP. Three $200 scholarships, given annually to music education sophomores. Criteria: College citizenship and musical performance. Applications are made to the dean of the School of Music.

NURSING SCHOLARSHIP PROGRAM. Scholarships not to exceed $2000 per academic year are available to assist students of exceptional financial need.

These scholarships are for full time or half-time study in the Bachelor of Science Degree Program in Nursing.

HILLARY H. PARRY MEMORIAL SCHOLARSHIP. An annual $200 award to a junior music student, granted for scholarship, citizenship, and achievement in vocal study. The scholarship is in remembrance of a former teacher of voice.

PHI MU ALPHA, SINFONIA POWELL MIDDLETON AWARD. An annual $100 award in memory of S. Powell Middleton, presented by the Rho Sigma chapter of Phi Mu Alpha Sinfonia men; music fraternity. It is based on outstanding musicianship, scholarship, and character. Applications are made to the dean of the School of Music.

WILLIAM PYLE PHILIPS SCHOLARSHIPS. Awarded annually to juniors and seniors who are natives of Chester County, on the basis of demonstrated scholastic ability. Funds are available for approximately 20 scholarships of $400 each. Application forms may be secured in the Office of Financial Aid.

DAVID M. SENSENIG MEMORIAL SCHOLARSHIP. $50 savings bonds given annually to two juniors with outstanding ability in mathematics. Dr. Sensenig was chairman of the Department of Mathematics from 1895 to 1908. The scholarship fund is administered by the alumni Association of West Chester State College.

DR. AHMAD H. SHAMSEDDINE MEMORIAL AWARD. An annual award for an outstanding student in the field of business and economics, in memory of Dr. Ahmad H. Shamseddine, associate professor of economics, who died in 1971. The Department of Business and Economics selects the recipient.

SCHOOL OF MUSIC MEMORIAL INSTRUMENTAL SCHOLARSHIP. Two $100 tuition scholarships to incoming freshman students who are instrumentalists to honor distinguished musicians and to continue their dedication to teaching talented students in the art of music. Applications are made to the dean of the School of Music.

SICO SCHOLARSHIPS. $3,000 scholarships, in limited number, provided by the SICO Company of Pennsylvania to students from specified localities entering West Chester in the field of elementary or secondary education. Applications from high school seniors must be filed before March 1 through their guidance counselors. The stipulated areas of legal residence are: Chester, Adams, Berks, Cumberland, Dauphin, Delaware, Lancaster, Lebanon, and York Counties in Pennsylvania; Kent, New Castle, and Sussex Counties in Delaware; and Cecil County, Maryland.

GREG SMITH MEMORIAL SCHOLARSHIP. An annual scholarship of $100 presented by the baseball club in memory of a former baseball captain and president of the baseball club.

THE CHARLES S. SWOPE SCHOLARSHIP FOUNDATION. A Memorial Scholarship Trust Foundation established by the Swope family in memory of Dr. Charles S. Swope, who served as president of West Chester State College for a quarter of a century. In order to apply for the scholarship "the student must be enrolled in the junior year and have a desire to engage in the teaching profession." Application for the scholarship, which is awarded in the amount of $800 each, must be filed with the Trustee Committee on or before April 1 of each year. The selection is made by the committee during May, and scholarships commence in September. The number of scholarships which the Swope Foundation makes possible annually is in the range of fifteen.

LOANS

NATIONAL DIRECT STUDENT LOAN PROGRAM Under this program students can obtain long-term, low-interest loans. The program includes loan cancellation provisions designed to attract superior students to the teaching profession at all academic levels. Approval of loans depends upon the student's need for financial assistance and the availability of funds. Preference is given to students from low-income families.

PENNSYLVANIA HIGHER EDUCATION ASSITANCE AGENCY LOAN GUARANTY PROGRAM. Under the Pennsylvania Higher Education assistance Act of 1963, as amended, qualified Pennsylvania residents can obtain long-term, low-interest educational loans, made by private lending institutions who are guaranteed repayment by the Pennsylvania Higher Education Assistance Agency.

WEST CHESTER STATE COLLEGE STUDENT EMERGENCY LOAN FUND. Students doing satisfactory academic work and needing funds to continue in the college may obtain short-term loans up to $100 from this fund. The loans must be repaid before graduation or prior to registration for the next academic year.

ALUMNI STUDENT EMERGENCY LOAN FUND. The West Chester State College Alumni Association maintains a fund from which students in financial need may obtain loans. No interest is charged, although legal security is required. Applicants must have a satisfactory academic record. The loan amount is restricted to no more than $300. The loan must be repaid within 6 months. Applications are available from the executive director of the Alumni Association.

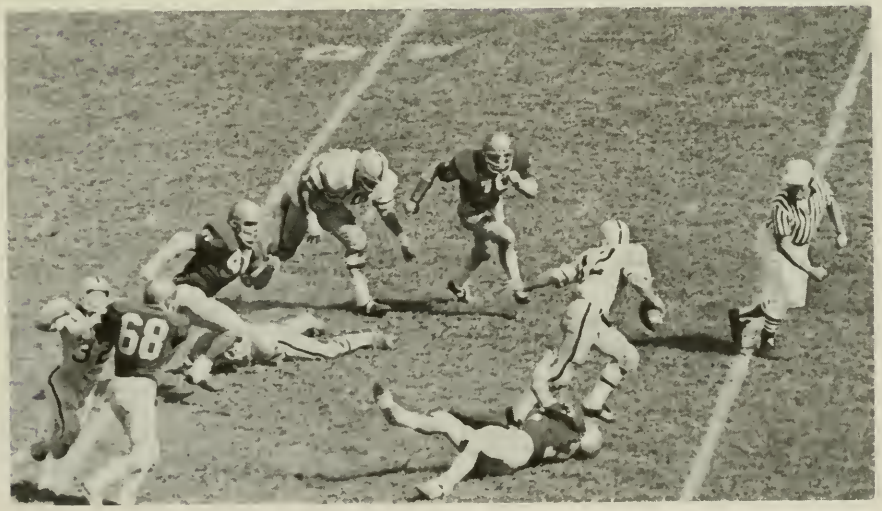
NURSING STUDENT LOAN PROGRAM. Loans not to exceed $2500 per academic year are available to students for full time or half-time study in the Bachelor of Science Degree Program in Nursing. Approval of loans depends upon the student's need for financial assistance and the availability of funds

COLLEGE WORK-STUDY PROGRAM

The College Work-Study Program is designed to expand part-time employment opportunities for students, particularly those from low-income families, who are in need of earnings from part-time employment to pursue their course of study.

COUNSELING SERVICES FOR SENIORS SEEKING GRADUATE ASSISTANTSHIPS OR FELLOWSHIPS

Seniors planning to pursue graduate study at other colleges or universities may obtain information about scholarships, fellowships or assistantships from the director of the Counseling Center or the library. Conferences with department chairpeople or faculty advisors are recommended.



STUDENT AFFAIRS

It is a conviction at West Chester that education is both an academic and a social process, and that the student community is not merely a housing adjunct but an intrinsic part of the college experience.

The administration holds that students should share the responsibility in governing this community and should have a voice in shaping and reexamining the objectives of the college.

West Chester students have a democratically constructed governing body for maintaining a mature and responsible student citizenry and for developing the various activities and programs which best serve their interests and needs. Through advisory and committee machinery, the administration, the faculty, and the student body seek to work together in behalf of the general welfare of the college.

CLASSIFICATION OF STUDENTS

Students who attend West Chester State College are classified for administrative purposes into two categories.

(1) RESIDENT STUDENTS
These students live in residence halls operated by the college. Resident students are required to take meals in the dining hall.

(2) OFF-CAMPUS STUDENTS
This classification covers students who travel or commute to and from their legal residence as well as students who live away from the homes of their parents or legal guardians in a dwelling which is not supervised or approved by the college.

HOUSING

1. ON-CAMPUS HOUSING

The residence halls on the campus provide accommodations for approximately 3,100 students. Students cannot be guaranteed housing for their full four years.

Room Assignments. The Office of Student Development makes the room assignments for all students living in the residence halls. These assignments are made without regard to race, color, national origin, sex, sexual orientation, age or religious creed. Only individuals of the same sex will be assigned as roommates. Student rooms have basic furnishings for comfortable living and the students may make them more homelike with their own accessory additions. During orientation, students are informed about the services and equipment furnished by the college and those necessities which the student must supply for himself. Lounge and recreation areas, storage rooms, television, and a variety of other facilities add convenience and a pleasant setting for student life.

Freshman Students. All freshmen—both men and women—who have been accepted as resident students have the opportunity to live in the college residence halls.

Transfer Students. Transfer students are admitted both as resident students and as commuting students. Those who have been admitted as commuting students and desire accommodations in residence halls may apply in the housing office to be placed on the waiting list. Priority is based on the date the application is received.

Married Students. The college has no housing facilities for married students during the regular sessions. Prior to registration, they will need to secure their own accommodations in the community.

Overnight Guests. If accommodations are available, a resident student may have an overnight guest on Fridays or Saturdays at a charge. Prior approval and registration must be secured from the resident director.

Policy for Withdrawals. Resident students must vacate their residence hall within 24 hours of completing the withdrawal form in the Office of the Registrar.

2. OFF-CAMPUS HOUSING

Students who wish to live in the community must secure their own off-campus accommodations. Lists of off-campus housing are available in the Office of Student Development, Sykes College Union Building. The college does not approve or inspect off-campus living units on this list. Area realtors and newspapers should also be consulted.

DINING ACCOMMODATIONS

Dining accommodations are provided in Lawrence Center where all resident students must take their meals. Commuting students may eat meals in the college dining room on a semester basis or may obtain meals at the transient rates. Three meals are served, cafeteria style, every day of the week. Menus are carefully planned to meet the nutritional needs of active students.

The dining hall staff is not equipped to meet the special needs of students whose health requires medically regulated diets. Special problems should be taken to the coordinator of food services at least two weeks in advance of each semester.

Students who do not have a semester contract for meals may not eat in the dining hall unless they pay the transient fee for an individual meal. If this regulation is violated, the student will be held responsible for payment of the full semester charge for meals in the dining hall.

NEW STUDENT ORIENTATION PROGRAM

The New Student Orientation Program, with its human relations experience, is a required program for all new freshmen and transfer students. Freshmen attend a three-day session during the summer while transfer students attend a two-day session.

Students receive one academic credit for their participation in the human relations experience.

The orientation program helps introduce students to the campus and helps students develop certain basic competencies in human relations.

Freshmen will schedule for classes and take required placement tests during orientation.

Within limits of early response and available space, new students may schedule for the most convenient of several orientation sessions. Advance notice of the program is sent to all incoming students. If you do not receive advance notification about the program, or if you have any questions, please contact the Director of Orientation, 206 Sykes College Union Building.

COLLEGE HEALTH SERVICE

To meet emergency and first-aid needs, and to perform routine infirmary treatment of minor illnesses and minor surgical conditions, two part-time physicians and five registered nurses are available at no cost to the students. A four- bed ward is available for short-term observation or treatment at the discretion of the college physicians. The College Health Service is in Reynolds Hall where, for emergencies, a nurse is on duty on a 24-hour basis except from midnight Saturday to 8:00 a.m. Sunday while college is in session. Beyond these services, the college does not furnish medical care nor bear the costs of medical or surgical treatment or hospitalization. The community of West Chester has qualified physicians and excellent hospital facilities.

INSURANCE PROGRAM

In order to ease the financial burden which could result from extended illness or serious injury, a voluntary student insurance program, approved by the college, is available to all full-time and part-time students as well as graduate students. The college *requires* all students in health and physical education, all students participating in the intercollegiate athletic program, and all students who are members of a club of an athletic nature to purchase the minimum coverage or show proof of comparable coverage.

Information about the insurance program is mailed to students prior to registration or may be obtained from the College Health Service.

Liability Insurance Requirement for Students in Nursing. See Department of Nursing.

STUDENT PHYSICAL EXAMINATIONS

In addition to the physical examination required for entering students, a completed physical examination form must be submitted annually to the College Health Service by all students participating in the intercollegiate athletic program.

A current physical examination including a report of a negative tuberculin test or chest X-ray showing no active tuberculosis is mandated by the Pennsylvania Department of Education for all senior student teachers and all junior or sophomore students participating in a field experience in the public schools.

The College Health Service reserves the right to request an annual physical examination by the family physician for any student suffering from a chronic illness. The college may deny admission to, or later dismiss, any student whose health would be detrimental to other college students.

No student will receive treatment unless a physical examination form is completed and filed.

These forms are available at the college infirmary.

Physical Examination Requirement for Students in Nursing. See Department of Nursing.

VEHICLE REGULATIONS

All students may operate motor vehicles at the college. Students who intend to park motor vehicles on official student parking lots must register their vehicles with the Department of Law Enforcement and obtain an authenticated decal under college motor vehicle regulations.

CAMPUS POST OFFICE

The college has an on-campus post office, located on the second floor of Lawrence Center. Commuting students may receive their mail here through combination-lock mail boxes. Mail boxes are assigned to them on request. Residence hall students receive their mail at their dormitories. To insure prompt delivery, mail sent to resident students should show the student's name, room number, the name of the residence hall, and West Chester, Pa., 19380.

COLLEGE POLICY FOR STORM CLOSINGS

When storm conditions affect the operation of the college, announcements are made over local radio and TV stations via a system of code numbers keyed to affected schools with prefixes indicating whether the school will be closed or open later than usual. West Chester's numbers and applicable prefixes are:

853 Day Classes
2853 Evening Classes
No prefix—Classes are cancelled for the day.
Prefix 5—School will open 1 hour late.
Prefix 6—School will open 2 hours late.

COLLEGE BOOKSTORE

Operated by the Intracollegiate Governmental Association, the College Bookstore is located on the ground floor of the Sykes College Union Building. In addition to required textbooks, the bookstore carries a full line of school supplies, health and beauty aids, supplementary reading material, physical education uniforms, gift items and the many other "necessities" of student life. Purchases may be charged to students or their parents subject to certain qualifications. Details are available at the IGA Business Office where application for credit may be made. All profits derived from the bookstore benefit the student body through the IGA.

SYKES COLLEGE UNION

This multi-purpose facility is a place to go for the entire college community. Under one roof are lounges and meeting room facilities, recreation and leisure-time activities plus a campus deli eating facility. Also housed within this complex is the Office of Student Development, Intracollegiate Governmental Association Offices including ticket purchasing and check cashing, the WCUR radio station, offices of "the *Quad*" student newspaper, duplicating facilities and the College Bookstore.

SPEECH AND HEARING CLINIC

The services of the Speech and Hearing Clinic, located on the second floor of Wayne Hall, are available to students. The clinic, which the Department of Speech Pathology and Audiology maintains as a teaching-training facility, provides diagnostic and therapeutic services for persons with speech and hearing problems. Others who may use the services of the clinic are the college community and residents of West Chester and the surrounding area.

THE COUNSELING CENTER

The Counseling Center offers special opportunities for personal growth which can make the college experience more rewarding and fulfilling. It is a place where students may get help in facilitating their own growth through discussion. The opportunity to clarify feelings and explore concerns enables many people to realize their potential more fully.

The Counseling Center provides counseling services without charge to all undergraduate and graduate students at West Chester. The faculty in the Counseling Center includes licensed psychologists who are interested and experienced in working with college students. Students may discuss their concerns, feelings, hopes, and interests freely and in strict confidence.

COUNSELING SERVICES:

Since the Counseling Center provides services for a wide range of concerns, each student's experience will be tailored to his or her request. Students may want to clarify their vocational or educational choices, improve their interpersonal skills, or resolve personal conflicts. Their choice of approach could include one or more of the following counseling center services.

1. *Individual vocational* counseling consists of a one-to-one counseling experience which focuses upon the student's choice of major and vocation. Vocational choice is most solid when it is the outgrowth of understanding one's self. Such understanding requires time and thought and involves the student's identifying his or her own style, values, interests, and abilities. Psychological testing as well as discussion often enhances self understanding.

2. *Individual counseling for personal problem solving* consists of a one-to-one counseling experience where the focus is upon resolving personal conflicts, conflicts with others, and upon improving the student's expertise at making personally meaningful choices. It may also help some people avoid decisions which restrict their personal growth and undermine their well-being.

3. *Group counseling* consists of a small group of peers with one or more counselors. Such groups meet usually once weekly to provide group members with constructive learning about themselves. Groups often have a specific focus. Past groups have focused upon:

   Elimination of self-defeating behavior
   Assertiveness training
   Anxiety maintenance
   Test anxiety reduction
   Weight reduction
   Career exploration
   Procrastination—how to avoid it

4. *Testing*—Information from psychological tests can be useful in increasing self understanding and can often assist in the process of vocational and

educational decision making. The Counseling Center faculty is trained in the administration and interpretation of psychological tests and the student and his or her counselor can decide whether testing might be helpful to you. Arrangements can also be made at the Counseling Center for taking the Graduate Record Exam and the Millers Analogies Test—two graduate school admissions tests.

5. *Consultation Services*—The Counseling Center faculty also is available to consult with staff and faculty members of the college community. It can assist with crises, program planning, group and interpersonal communications, as well as referrals to other agencies.

CAREER PLANNING AND PLACEMENT SERVICES

The professional staff of the Career Development Center work directly with students throughout their years in college assisting in defining career goals, relating academic preparation to these goals, and, eventually, helping in the search for fulfilling occupations. These services are available throughout the entire calendar year in Lawrence Center, second floor. A career information section is kept current for browsing and research while the Office of Graduate Studies provides college catalogs and other reference materials for students considering graduate school. Other activities of the Career Development Center include career days, seminars, and on-campus interviews with potential employers.

SCHEDULING OF COLLEGE EVENTS

All college functions and special events should be scheduled in advance with the director of cultural affairs and college events, Sykes College Union, in order that there be proper facilities and the necessary supportive services.

THE INTRACOLLEGIATE GOVERNMENTAL ASSOCIATION

All students, upon payment of their student government fee, are members of the Intracollegiate Governmental Association, which is the student governing body concerning itself with the welfare of all students. Under its constitution, the IGA provides students with experiences in the processes of democratic government.

The elected General Assembly is the IGA's legislative body; the IGA program is administered through its officers and a student committee system. In fiscal matters, in various policy-making areas, and in disciplinary action, final authority rests with the president of the college and the Board of Trustees.

Under guidance from the vice-president for student affairs, the IGA maintains the College Bookstore, publishes the student newspaper, operates the college radio station, conducts ticket sales for college events, and plans and conducts many all-campus special events and programs.

RESIDENCE HALL ASSOCIATION

The purpose of the Residence Hall Association is to provide for the social, cultural, and educational life of resident students. It purchases and maintains recreational equipment, provides social events, and gives the student development staff information regarding visitation hours, living conditions, and regulations in the residence halls. Its varied activities stem from representation and participation within the residence halls. Each hall has a representative from every floor and a slate of dormitory officers. The officers from every residence

hall represent their respective halls in the Residence Hall Association General Assembly.

OFFICE OF OFF-CAMPUS LIFE

The Office of Off-Campus Life (OCL) was formed in February of 1978 to meet the specific needs of all off-campus students. Located in Room 206 of the Sykes College Union Building, OCL is staffed daily from 8:30 a.m. till 4:30 p.m. The responsibilities of this office include the Off-Campus Housing Service; advising the Off-Campus Student Association, and serving as a community resource agent for the college and local government in all areas related to off-campus students.

Additional service provided to off-campus students by OCL include serving as their advisor in the college judicial system, landlord/tenent legal aid information, individual and group counseling, educational, cultural, and social programming and development of long-range plans and research on the profile and needs of the off-campus student.

OFF-CAMPUS STUDENT ASSOCIATION

Off-Campus Student Association (OCSA) is a student organization whose primary goal is the representation of all students living off campus. OCSA objectives include distribution of college information, designing educational and social programming, and development of positive community relations. Through representation and input to various college committees OCSA represents the ideas and concerns of all students living in the West Chester community as well as students who commute to the college.

The organization encourages students' active participation in all OCSA events. The OCSA office is located in room 229 of the Sykes College Union Building (SCUB), phone number (215) 436-2279. Meetings are held every Tuesday at 11:00 a.m. in room 114 (SCUB). All off-campus students are urged to attend.

STUDENT STANDARDS

West Chester State College assumes that its students are mature persons who are attending an institution of higher learning for serious purposes. Therefore the college believes that students should accept responsibility for their personal behavior. In situations that deviate from these ideals, West Chester State College's Judiciary System is designed to hear complaints against individual students and groups of students whose behavior or activities are variously labeled unacceptable, destructive, irresponsible, disorderly, or in violation of existing standards of conduct and regulations.

In encouraging the development of responsible student conduct, the college employs counseling, guidance, admonition, and example, as well as disciplinary proceedings. Students found in violation of the college's rules and regulations may be subject to disciplinary action which could include suspension and/or expulsion.

ORGANIZATIONS AND ACTIVITIES

West Chester has an extensive program of extra and co-curricular activities under the direction of the vice-president for student affairs, who works directly with the officers and committees of the IGA in coordinating the program seeing that it reflects and fulfills student needs. Many of the activities are described in

the following pages with additional details provided in the student handbook, *Ram's Eye View*.

CULTURAL AFFAIRS/COLLEGE EVENTS

The Cultural Affairs Program at West Chester exceeds most college programs by far in both quality and quantity. Supported by the large and respected School of Music and supplemented by an interested community, the cultural affairs events always draw large and enthusiastic audiences.

THE ALL STAR SERIES—Each year this provides students at West Chester the opportunity to see and hear noted artists from around the world. For instance, recent performances included the Vienna Choir Boys, André Watts, Roberta Peters, Van Cliburn, and Vincent Price.

THE CHAMBER MUSIC SERIES—Numerous well-known chamber groups have come to the West Chester campus under this program including the Guarneri, Curtis, and Warsaw String Quartets; the Mozarteum Woodwind Quintet; and the American Brass Quintet.

THE WILLIAM PYLE PHILIPS LECTURE SERIES—This series brings varied prominent individuals from the worlds of the arts, politics, and science.

Additional college events popular with the student body include The Program Board Pop Film and Concert Series, the School of Music concerts and recitals, monthly exhibits at the Francis Harvey Green Library, art exhibits in Mitchell Hall, the English Colloquium, the College's Theatre Dance Group annual performance, and Little Theatre Productions in the Studio Theatre and Turk's Head Playhouse.

MUSICAL ORGANIZATIONS

In conjunction with the regularly scheduled student and faculty recitals, the college maintains the following well-developed musical organizations which contribute to the wealth of fine music on the campus.

THREE COLLEGE BANDS. Membership in the Symphonic Band, Concert Band, and Marching Band is determined by the student's qualifications regardless of curriculum.

COLLEGE STRING ORCHESTRA. Membership in this organization is open to all qualified students.

WIND ENSEMBLE. A band of 50 to 60 outstanding campus wind instrumentalists and percussionists, the ensemble performs difficult music emphasizing contemporary works.

SYMPHONY ORCHESTRA. Membership is determined by the student's qualifications.

INSTRUMENTAL ENSEMBLES AND CHAMBER MUSIC GROUPS. Membership in these groups is determined by the student's qualifications.

THE CRITERIONS. Members of the college jazz lab band are selected by audition.

CONCERT CHOIR. This mixed choir of approximately forty music students selected by audition meets twice a week, devoting its efforts toward acquiring a

fine technique of choral singing through the preparation of an extensive repertoire for performance.

CHAMBER CHOIR. Members of this choir which performs music of the Renaissance and baroque periods, are selected by audition.

CHOIR. A mixed choir of junior and senior music students, this group meets twice a week, devoting its efforts toward a wide association with choral literature. It is used as an opera chorus in School of Music productions and joins with the Concert Choir for large performances.

WOMEN'S CHORUS. All freshman and sophomore women not in the Concert Choir who are enrolled in music education are required to take this course, devoting their efforts primarily toward acquiring the techniques of choral singing.

MEN'S CHORUS. All freshman and sophomore men in music education who are not enrolled in the Concert Choir are required to take this course. Men from all other curricula are invited to audition for this group.

MIXED CHORUS. This mixed chorus of freshman and sophomore music education students meets once a week, alternating as a mixed chorus and as Men's Chorus and Women's Chorus. It combines with the Concert Choir for performances.

MUSICA ANTIQUA. Open to all students, the weekly meetings of Musica Antiqua are for the pleasure of learning to sing and play early music, using reproductions of ancient instruments. Public performances are presented.

OPERA CHORUS. The chorus is formed through an elective course devoted to the training of a choral group which participates in opera and operetta production. Membership is by audition.

WOMEN'S GLEE CLUB. This organization provides an opportunity for non-music women students to participate in a choral group. The activities include the annual Christmas Carol Program and the Women's Glee Club spring concert. Membership is by individual audition.

SPORTS, ATHLETICS, RECREATION

Sports and recreational activities are popular elements of student life at West Chester, thanks in large part to the outstanding resources of the School of Health, Physical Education, and Recreation.

The college's intramural and intercollegiate athletic programs, which are described under the School of Health, Physical Education, and Recreation, are open to all students.

Beyond organized athletic programs, informal sports and recreational activities of almost every conceivable variety are available. The range is from court games, field games, and swimming to hiking, ice skating, canoeing, bicycling, skiing, and camping. The office of Recreational Services, established in 1972, encourages increased participation in these leisure-time activities throughout the entire college community.

More details on the full athletic and recreational programs at West Chester are given under the School of Health, Physical Education, and Recreation in the Recreational Services Handbook.

FORENSICS AND THEATRE

FORENSICS. The college has a strong program in intramural and intercollegiate forensics. Its Forensic Society is the focal point for training in competition in debate, oratory, extemporaneous speaking, after-dinner speaking, parliamentary discussion, interpretive reading, and other events.

LITTLE THEATRE. Excellent opportunities for experience in theatre are offered through this student organization which functions in the Studio Theatre and Turk's Head Playhouse. Its major productions, drawn both from the classics and from contemporary drama, are outstanding events for the college and the community as well. All students with an interest in drama are welcome.

WEST CHESTER COLLEGE MUSICAL THEATRE COMPANY. Students with an interest in joining other students in the production of Broadway musical fare may enjoy what this group has to offer. Productions are mounted, directed, designed, and performed by students. Musical Theatre Company welcomes all students.

PUBLICATIONS AND RADIO

THE QUAD. This student newspaper is published by the Intracollegiate Governmental Association with a faculty member as advisor. All interested students are invited to seek positions on the Quad which offers training and experience in many areas of journalism.

THE SERPENTINE. This yearbook provides a pictorial and written record of the year's activities at the college. It is edited by a student staff with a faculty advisor.

COLLEGE LITERATURE. This journal of scholarly articles on frequently taught literary works is published thrice yearly.

RAM'S EYE VIEW (THE STUDENT HANDBOOK). Detailed information concerning student life is provided by this annual, student-edited publication. It is particularly valuable to the incoming student.

STATION WCUR. Sponsored by the Intracollegiate Governmental Association, WCUR serves the college with news, music, and special interviews and programs. The station, operated entirely by students, offers experience in all phases of radio communication.

RELIGIOUS ORGANIZATIONS AND PLACES OF WORSHIP

Opportunities for fellowship and religious experience are offered by the following groups:

Campus Crusade for Christ
Hillel Club
Newman Student Association
Christian Science Organization
Fellowship of Christian Athletes
Lutheran Student Association

The Ecumenical Campus Ministry Board, Inc., is an interdenominational ministry which works with students and the campus community in pertinent religious areas, both personal and social. Through its ministers and its executive director, various programs, including interfaith experiences, are provided.

Students are always welcome at the many places of worship in and near the Borough of West Chester.

BLACK STUDENT UNION

The Black Student Union, which was formed in 1971, is dedicated to the creation of a relevant atmosphere for black students at West Chester. Black Student Union membership is open to all West Chester students, faculty, and staff—regardless of race, color, or creed—who have a concern for the black cause.

A major purpose of the organization is to broaden and enhance the academic and social life for black students at the college. The union's democratically structured constitution provides for an executive board elected by the membership. Applications for membership in the Black Student Union are reviewed by the executive board. Applications for membership may be made at the Black Student Union office in the basement of Recitation Hall.

HONOR SOCIETIES

ALPHA LAMBDA DELTA. The West Chester chapter of this national freshman honors society encourages superior scholarship attainment and continued scholarly development. A 3.5 average for the first two semesters is required for membership. Thereafter a student must maintain a cumulative grade average of 3.0 in order to maintain active membership in the organization.

ALPHA MU GAMMA. The Department of Foreign Languages sponsors a chapter of this national collegiate foreign-language honor society, devoted to promoting the study of foreign languages and encouraging cultural exchange with foreign students.

APLHA PSI OMEGA. This honorary fraternity recognizes excellence in and dedication to the theatre arts. It is sponsored by the Department of Speech Communication and Theatre and membership is open to all students regardless of major.

GAMMA THETA UPSILON. Gamma Eta Chapter of this international professional geographical honorary society was established in 1963. The organization promotes professional interest in geography and provides services with the Department of Geography.

KAPPA DELTA PI. Kappa Delta Pi is a national honorary society for junior and senior students in education who excel in scholarship, maintain high personal standards, and are dedicated to the teaching profession.

PI GAMMA MU. The Omega chapter is sponsored by the School of Social and Behavioral Sciences for the recognition of scholarship in the social sciences and encouragement of social service. Majors in the school who have demonstrated high academic achievement may become candidates for membership in their junior or senior years.

PHI KAPPA DELTA. This professional fraternity is open to students preparing for administrative careers in business and government. Its objectives are to participate in worthy undertakings on campus in administrations and in the community and to promote educational, vocational, and leadership opportunities and experience for all members.

PI KAPPA LAMBDA. The primary objectives of this national music honor society are the recognition and encouragement of the highest level of musical achievement and academic scholarship. Nominations and elections to membership are the responsibility of the faculty committee of the chapter. Delta Sigma chapter at West Chester State College was established in 1978.

PI KAPPA DELTA. A chapter of this national honor society for students in competitive forensic activities was established in 1969 under the School of Arts and Letters sponsorship. Pi Kappa Delta has its base in the Forensic Society.

PI MU EPSILON. This national mathematics society is open to junior standing students who rank in the upper-third of their class and have completed 18 hours of mathematics with a minimum average of 3.0. It is also open to sophomores who rank in the top quarter of their class and have completed 3 semesters of the calculus sequence with an average of 4.0.

PHI ALPHA THETA. Organized in 1968, Nu Sigma chapter of this international honor society in history is sponsored by the Department of History. Phi Alpha Theta is open to history majors in teacher education and liberal arts who have a minimum average of 3.01 in twelve or more semester credits in history.

PHI DELTA KAPPA. This is an international honor society in graduate education for both men and women who are actively engaged in the profession of education. Its aim is to promote quality education on all levels, particularly in publicly supported education. Results of research are reported in its extensive publications. The West Chester State College campus chapter includes over one hundred members from the surrounding area and from the campus.

PHI EPSILON KAPPA. The School of Health, Physical Education, and Recreation sponsors the Gamma Alpha Chapter of this national, professional, honor fraternity for students majoring in health and/or physical education. Phi Epsilon Kappa seeks to advance the profession of health and physical education and promote brotherhood among its members.

PHI MU ALPHA SINFONIA. Rho Sigma chapter of the professional men's music fraternity was formed at West Chester in 1967. The organization seeks to advance the cause of music in America and to foster the welfare and brotherhood of students of music. Upon approval by the brotherhood prospective members are invited to pledge the fraternity. These prospective members must be at least second semester freshmen.

PSI CHI. A chapter of this national honor society in psychology is sponsored by the Department of Psychology. Membership is by invitation, with scholarship as the major criterion. Psi Chi, under the aegis of the American Psychological Association, endeavors to advance the science of psychology and encourages superior scholarship in all academic fields, particularly in psychology.

SIGMA ALPHA IOTA. Epsilon Epsilon chapter of this internationally incorporated professional fraternity for women in music was formed in 1968. The fraternity is dedicated to service in the field of music. Membership, by invitation, recognizes scholarship, and musicanship. Members must be in at least their second semester.

SIGMA TAU DELTA. Under the sponsorship of the English Department, a chapter of Sigma Tau Delta, national honor society for students of English, was established at West Chester State College in 1977. This organization has for its major purposes the stimulation of interest in the opportunity for practice and experience in all phases of the study of English language and literature.

SERVICE FRATERNITIES AND ORGANIZATIONS

ALPHA PHI OMEGA. Omicron Upsilon chapter of this fraternity, which is dedicated to service and leadership development, is open to all men of the campus community. Omicron Upsilon chapter conducts many service-oriented activities.

THE FRIARS SOCIETY. The Friars Society, which has been established at West Chester for many years, is composed of sophomore, junior, and senior men invited into the organization in recognition of character and leadership. The society's various service projects concern the good of the college community.

SOCIAL FRATERNITIES AND SORORITIES

The college has a system of social fraternities and sororities, governed respectively by the Inter-Fraternity Council and the Panhellenic Council, a chapter of the National Panhellenic conference. Since their introduction in 1967-1968, the social fraternities and sororities have become an integral part of campus life.

NATIONAL FRATERNITIES	NATIONAL SORORITIES
Alpha Phi Alpha	Alpha Kappa Alpha
Kappa Alpha Psi	Alpha Phi
Lambda Chi Alpha	Alpha Sigma Tau
Omega Psi Phi	Alpha Xi Delta
Phi Beta Sigma	Delta Sigma Theta
Tau Kappa Epsilon	Delta Zeta
Theta Chi	Zeta Tau Alpha

ORGANIZATIONS AND ACTIVITIES

West Chester has an extensive program of extra and co-curricular activities. Many organizations, including student interest clubs, intercollegiate athletics, cultural affairs, the Program Board, music and related activities, recreational services, and sports clubs are funded through the student government fee. Allocations are made by the finance committee of the Intracollegiate Governmental Association under the direction of the vice president for student affairs. Many of the organizations are described in the following pages, with additional details provided in the student handbook, *Ram's Eye View.*

THE PROGRAM BOARD

The Program Board is one of the major sub-committees of the Intracollegiate Governmental Association and one of many organizations funded through the student government activity fee. The board is composed entirely of volunteer members from the student body and advised by two professional staff persons. Their goal is to provide recreational and educational experiences which meet the intellectual, social, emotional, and cultural needs of the college community. At the same time, these students also have an opportunity to gain valuable training in leadership, responsibility, and life skills. The Program Board strives to achieve these ends through cabaret entertainments, concerts, lectures, theatre presentations, dance programs, pop and art films, artists-in-residence workshops, light cultural events, and video activities.

THE ALUMNI ASSOCIATION

Graduation doesn't necessarily mean termination of college activities for students as West Chester has a large and active Alumni Association. It has branch organizations in various Pennsylvania communities as well as out-of-state in New Jersey and California. Alumni Day is held annually at the college during Commencement Weekend, and the association publishes a quarterly magazine, *The Olden Ram,* to keep members informed of college concerns.

STRUCTURE OF THE COLLEGE

*The structure presented below is the structure of the college during 1978-79. This structure is currently being revised.

West Chester State College is divided into six schools each under the direction of a dean. The various departments of the college are distributed among the schools as follows:

SCHOOL OF ARTS AND LETTERS

John P. Field
Acting Dean
Art
English
Foreign Languages
Philosophy
Speech Communication and Theatre
Speech Pathology and Audiology

SCHOOL OF EDUCATION

Carlos R. Zeigler
Acting Dean
Counselor Education
Early Childhood and Elementary Education
Instructional Media Education
Reading
Secondary Education and Professional Studies
Special Education

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Ronald B. Woods
Acting Dean
Edwin B. Cottrell
Associate Dean
Health Education
Physical Education

SCHOOL OF MUSIC

Charles A. Sprenkle
Dean
Alexander Antonowich
Associate Dean
Music Theory and Composition
Music History and Literature
Music Education
Keyboard Music
Vocal and Choral Music
Instrumental Music

SCHOOL OF SCIENCES AND MATHEMATICS

Russell K. Rickert
Dean
Biology
Chemistry
Earth Sciences
Mathematical Sciences
Nursing
Physics

SCHOOL OF SOCIAL AND BEHAVIORAL SCIENCES

James S. Milne
Acting Dean
Anthropology, Sociology, and Social Welfare
Business and Economics
Criminal Justice
Geography and Planning
Government and Politics
History
Psychology

ACADEMIC POLICIES AND PROCEDURES

REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1 Satisfactory completion of a minimum of 128 semester hours distributed as shown in the curriculum for the student's major field
2 Achievement of a cumulative index of at least 2.00 (C) and an average of at least 2.00 (C) in the major field
3 Attendance at West Chester State College for at least 30 semester hours of the degree program
4 Fulfillment of any special requirements or program competencies which are particular to a department or a school
5 Fulfillment of all financial obligations to the college, including payment of the graduation fee; and of all other obligations, including the return of college properties
6 Compliance with all academic requests from the Dean of Academic Services, including the request for Notice of Intention to Graduate

NOTE:
Students are permitted to pursue dual majors under the same degree with the concurrence of the participating department.

THE GENERAL REQUIREMENTS—COMMON TO ALL CURRICULA

West Chester State College's over-all curriculum has been substantially altered in the last few years as the result of a comprehensive investigation with recommendations by committees and councils comprised of faculty, students, and administrators. Aimed at determining genuine needs and realistic goals for today's students, the extensive study has resulted in a new program of general requirements allowing more freedom of choice for the student and greater flexibility for the departments in planning their curricula.

It was felt that to insure a broad education encompassing experiences in humanities and the social and natural sciences, it would be imprudent to eliminate the general requirements completely. At the same time, however, it became obvious that today's education must be versatile because of the many new courses and areas of study that are constantly becoming available.

As a result, these general requirements represent a decrease in required hours and specific required courses while increasing the number of courses that may be used to fulfill a given requirement.

The "new" general requirements apply to all students entering West Chester since June 1974. Those who entered the college prior to that date continue to follow the general requirements that were in effect at the time of their entrance. These are given in previous issues of the Undergraduate Studies Bulletin through 1972-74 and are also available in all departments.

All students should counsel closely with their advisors. Each department has a handbook or guide outlining courses of study for the various curricula that are available. These give required courses, prerequisites and other information necessary for the successful completion of the student's degree program.

THE BASIC OUTLINE FOR GENERAL REQUIREMENTS

(as revised in April 1974 and introduced to freshmen entering in June 1974 and thereafter)

I BASIC SKILLS **5-8 SEMESTER HOURS**

English Composition (3)*
Physical Education (2)

II HUMANITIES **9 SEMESTER HOURS**

One course in three of the following areas:

Art
Literature
Music
Philosophy
Speech/Theatre

III SOCIAL AND BEHAVIORAL SCIENCES **9 SEMESTER HOURS**

One course in three of the following areas:

Anthropology/Sociology
Economics
Geography
History
Political Science
Psychology

IV SCIENCES AND MATHEMATICS **9 SEMESTER HOURS**

One course in three of the following areas:

Biology
Chemistry
Computer Science

Earth and Space Science
Mathematics
Physics

V FREE ELECTIVES **9-12 SEMESTER HOURS**

These hours are completely at the choice of the student.

TOTAL: 44 SEMESTER HOURS

***POLICY FOR PLACEMENT IN FRESHMAN COMPOSITION COURSES**

Effective June 1978, all entering freshmen with Verbal SAT scores below 450 must take English 000 (Basic Writing, no credit), then English 120 and 121 (Effective Writing I and II, 3 credits each). Students with Verbal SAT scores between 450 and 590 take English 120 and 121. Students with Verbal SAT scores of 600 or above must take either English 121 or Literature 299; the student may elect to use the latter course to satisfy one-third of the general education humanities requirement.

Exemptions: Students may take a placement test during their summer orientation week; if they pass it, they will be allowed to bypass the composition course they would have taken first according to their SAT scores. (That is, students below 450 who pass the placement test will enroll in English 120; students in the 450-590 group who pass the test will enroll in English 121.)

HUMAN RELATIONS REQUIREMENT

Effective as of fall, 1976, a one-credit human relations course taken as a part of the New-Student Orientation Program is a requirement for all degree candidates. This course is graded on a pass-fail basis.

FOREIGN LANGUAGE REQUIREMENTS FOR BACHELOR OF ARTS DEGREE CANDIDATES

Candidates for the B.A. degree are required to complete the second half of the intermediate year of a foreign language. This means in effect that only the 202 (Intermediate II) language course is actually required. Hence, any student who is not qualified to take the 202 course must prepare himself by taking the elementary (101-102) and/or Intermediate I (201) courses or course or by independent study. (101, 102, and 201 levels may be taken pass-fail if the student wishes.) Students may satisfy the foreign language requirement by presenting evidence of preparation equivalent to the 202 level either by certificate or by examination.

QUALIFYING FOR THE TEACHING CERTIFICATE

Upon satisfying all of the baccalaureate degree requirements listed in this bulletin, students in teacher education programs may qualify for the Instructional I Certificate, which will be issued by the Pennsylvania Department of Education. The specific applications of the Instructional I Certificate, according to the field or area of study, are detailed under "Teaching Certificates" in Academic Affairs.

All students seeking a teaching certificate should consult with their professional advisor regarding certification requirements prior to their junior year.

REQUIREMENTS OF THE SCHOOLS

Students in degree programs which are listed in this catalog as part of two of West Chester's schools have core requirements which must be met in addition to the general requirements. The requirements are as follows:

ARTS AND LETTERS CORE REQUIREMENTS—15 S.H.

Beyond courses selected to meet the general requirements, one course is required in each of the following areas plus a second course from one of the areas:

(a) Art
(b) Literature
(c) Philosophy
(d) Speech Communication/Theatre

NOTE:

(a) The requirements shown above apply to School of Arts and Letters students in both the Bachelor of Arts and Bachelor of Science in Education curricula within limits set by the department.

(b) In addition to core requirements, School of Arts and Letters majors may be required to take certain related courses as determined by the departments.

SOCIAL AND BEHAVIORAL SCIENCES CORE—21 S.H.
All Bachelor of Arts Programs and all Bachelor of Science Programs in Criminal Justice and Education

(The disciplines included in the social science core are: anthropology, economics, geography, government and politics, history, sociology, and psychology)

A. Four courses in the School of Social and Behavioral Sciences in the disciplines not chosen under the general requirements 12 s.h.
B. One additional course in each of three disciplines in the School of Social and Behavioral Sciences outside the student's major 9 s.h.

Residency Requirements: Students graduating from programs in the School of Social and Behavioral Sciences must complete eighteen (18) hours of residency in the department from which they graduate.

SECOND BACCALAUREATE DEGREE

An individual may pursue a second baccalaureate degree at West Chester State College after achieving the first baccalaureate degree either at West Chester or some other institution. Such an individual must apply for admission through the Office of Admissions as a transfer student and earn at least thirty hours on campus beyond the requirements of his/her initial baccalaureate program. All requirements for the curriculum in which the second degree is earned must be satisfied. A given course required in both the degree programs may not be repeated for the second degree.

The main purpose of the option of applying for a second degree is to provide baccalaureate recognition for those who have secured a degree in an area divergent from the intended major.

West Chester State College does not permit a student to pursue two degrees simultaneously, except in the five-year program in engineering in cooperation with Pennsylvania State University. Students who wish to pursue a double major

for their initial baccalaureate degree should discuss the feasibility of this with appropriate program advisors. (See also page 69.)

ACADEMIC ADVISING

Under West Chester's advising program, all students have faculty advisors, appointed through their major departments, who counsel them on academic matters throughout their undergraduate years. Students, however, are responsible for seeing that they meet all graduation requirements.

CLASSIFICATION BY COLLEGE PROGRAM

Degree Candidates—all undergraduates admitted to a degree program by the Office of Admissions or through approved internal transfer recorded in the Office of the Registrar.

Non-degree Students—special students admitted for course work toward certification, professional growth, or other purposes. Normally, a special student may not earn more than 24 hours of credit at West Chester. This classification does not include students who have been accepted through the Office of Admissions to the temporary undeclared major degree program.

ACADEMIC CLASSIFICATION OF STUDENTS

The student's class designation is determined by the number of semester hours or credit *earned*, thus:

Freshman	0-31 semester hours of credit (inclusive)
Sophomore	32-63 s.h. of credit (inclusive)
Junior	64-95 s.h. of credit (inclusive)
Senior	96 or more s.h. of credit

Note: In computing the cumulative index, the total number of credits *attempted* is considered. (See "Cumulative Index" below.)

STUDENT CLASS LOAD

A full-time classload ranges from 12 to 18 s.h. of semester credits. Students enrolled in 9 semester hours of a 0 credit course, and 3 contact hours, eg., English 000, are defined as full-time students by the college, but are defined by the state as part-time students as far as state financial aid (the PHEA grants) is concerned.

OVERLOADS

Students wishing to carry more than 18 credit hours per semester must secure permission from the Dean of Academic Services. Permission to carry more than 24 hours is rarely granted.

CHANGING MAJORS

A student wishing to transfer from one program of study at the college to another program files a Change of Program/Concentration form in the Office of the Registrar. The student must meet the standards for admission into the desired program and must obtain written permission from the department involved. Any courses which were initially accepted for transfer credit from another college are

subject to re-evaluation by the department to which the student transfers internally.

STUDENT ABSENCE POLICY

The student absence policy is a graduated policy providing leniency to students (primarily juniors and seniors) enrolled in 300 and 400 courses and certain restrictions to freshmen and sophomores in 100 and 200 courses. The privilege given to upperclassmen, regardless of course level, is based upon their demonstrated ability to assume responsibility.

The absence policy holds that satisfactory proficiency in course work is the student's responsibility, as is class attendance. Course grades should reflect satisfactory comprehension of the course materials, not the attendance record.

The policy is administered at the student-faculty level. Only when a faculty member reports a course drop does the college learn of a poor attendance record.

Absences from 300 and 400 courses have no specified restriction. For 100 and 200 courses, freshmen and sophomores are allowed a total of absences equal to three times the semester credits. On days of an announced quiz, test, or examination, *no absences are permitted at any course level.* Excess absences in 100 or 200 courses may cause a freshman or sophomore to be dropped from the course and to incur either a WP or WF. Before a drop is instituted, the instructor discusses the matter with his or her department chairperson and informs the student of the intention.

This policy does not deal with unique circumstances such as preparation and performance in music, theater, athletics and laboratories or professional type duties such as practice teaching. Absences from these courses and duties must be considered on an individual basis by the department and professor responsible for the actual event or duty.

GRADE REPORTS

After each semester, a report of each student's semester grades is mailed to the student at the home address.

GRADING SYSTEM

Grade	*Interpretation*	*Percentage Equivalents*	*Quality Points*
A	Excellent	A—90-100	4
B	Superior	B—80-89	3
C	Average	C—70-79	2
D	Below Average	D—60-69	1
F	Failure	F—59 or lower	0
P	Passing		
I	Incomplete		
WF	Withdrew Failing	F—59 or lower	0
WP	Withdrew Passing		
AU	Audit		

I (Incomplete): given when a student fails to complete course requirements by the end of a semester for such valid reasons as serious illness or death in the family. Unless the work is satisfactorily completed within the first nine weeks of the next semester, the I becomes an F.

GRADE CHANGES

Normally a grade awarded other than "I" is final. Grades other than "I" (Incomplete) can be changed only when there is a bona fide clerical error. Any inaccurate final grade must be reported in writing to the professor before the end of the fourth calendar week of the following semester.

CUMULATIVE INDEX

The cumulative scholastic index (grade point average) is determined by dividing the total quality points *earned* by the total credit hours *attempted.* The following example, based on a single semester, illustrates:

	Semester Hours	Grade	Quality Points for Grade		Quality Points for Course
1st subject	4	A	4	4 x 4 —	16
2nd subject	3	B	3	3 x 3 —	9
3rd subject	3	C	2	2 x 3 —	6
4th subject	3	D	1	1 x 3 —	3
5th subject	2	F	0	0 x 2 —	0
	15				34

34 divided by 15 equals scholastic Index 2.27

All grades received during a student's enrollment (except the grade of "P" and except D's or F's when a second attempt produces a higher course grade) are included in the cumulative index. Grades from other colleges are excluded.

If a student repeats a course, in an effort to improve his D or F grade, he or she must notify the Office of the Registrar at the beginning of the semester in which the course is being repeated.

REPEATING COURSES

In a change of academic policy applying to students who were admitted or readmitted after June 1, 1973, D or F grades are not computed in the index when a student repeats the course and attains a better grade. If the second attempt does not produce a grade higher than D or F, the grade will be computed into the index and remain there even if a third attempt is successful. Whatever the outcome of second and subsequent attempts, the original D or F will appear on the student's record.

Students must inform the Office of the Registrar that they are repeating a course and must do so as the semester of the second or subsequent attempt begins.

For students admitted before June 1, 1973, the original D or F will be figured into the index.

Students readmitted after June 1, 1973, are eligible under the new D-F policy only for those courses in which they received a D or F after their readmission.

Except as indicated above, students who repeat a course will not earn additional credits in such a course towards their degree and in the event that the computer adds such credits to the students' records, these will be subtracted at the time of final clearance for graduation.

TAKING COURSES OUT OF SEQUENCE

Students may not enroll for credit in a more elementary course in a sequence after having satisfactorily passed a more advanced course in that sequence. For example, a student may not enroll for credit in French 101 after having satisfactorily passed French 201.

PASS-FAIL POLICY (Effective, September, 1978)

1. All sophomores, juniors, and seniors with a cumulative index of at least 2.00 are eligible.
2. The Pass/Fail privilege is limited to one course per semester; only free electives may be taken on a Pass/Fail basis. A free elective is a course which a student selects outside the major field and which the student is not using to satisfy either specific department requirements or a school or college distribution requirement.
3. A grade of *Pass* carries credit value, but does not affect the cumulative index.
4. A grade of *Fail* is computed into the cumulative index.
5. After contracting for Pass-Fail, the student may not request or accept any grade other than a "P" or "F".
6. This process must be completed by the end of the *eighth* week of the semester or the equivalent in Summer School. Forms are available in the Office of the Registrar.

AUDITING PRIVILEGES

Anyone may attend the college for the sole purpose of auditing one or more courses by obtaining approval from the Office of the Registrar and paying the regular fee. Full-time students have the privilege of auditing one course per semester without charge, provided they obtain approval from the course instructor. Part-time students may audit one course per semester, provided they obtain the instructor's approval, enroll in the course through the Office of the Registrar, and pay the regular course fee.

Credit is never given to auditors, and audited courses do not appear on student records. After the course has commenced, the auditor status may not be changed.

EXEMPTION FROM FINAL EXAMINATIONS

Students who have attained an A or B prior to the finals, have completed all other course requirements, and have the instructors' permission may waive final examinations. This privilege is subject to several reservations.

1. Any unit examinations given during the final examination period are not subject to this policy.
2. Academic departments as well as faculty may adopt a policy excluding the final examination exemption for certain courses.
3. Mutual agreement between the instructor and the student to waive the final examination should be determined during the week prior to the beginning of the examination period.

The course grade will be the A or B earned exclusive of a final examination grade.

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ACADEMIC HONORS LIST (Effective September, 1979)

The academic Honors List of those students achieving a semester index of 3.50-4.00 is published at the close of each semester.

MAINTENANCE OF MINIMUM STANDARDS

A 2.00 (C) cumulative index is the minimum acceptable for academic work; students failing to maintain a 2.00 index are considered probationary students.

In order to remain in the college as degree candidates, students must attain the following cumulative indexes.

With up to 32 credits attempted or two full-time semesters completed	1.80
After 32 credits attempted or four full-time semesters completed	2.00

A minimum cumulative index of 2.00 (C) for all work taken at the college is required for senior standing and graduation.

If a student's cumulative index is below 1.00 (D) after attending two full-time semesters and the summer sessions, the student is denied permission to enroll again in the college.

MINIMUM STANDARDS—TRANSFER STUDENTS

Transfer students are required to maintain the cumulative indexes shown above. The number of credits taken at West Chester is added to the number of credits transferred for the purpose of determining the credit hours attempted For example, 34 credits transferred and 32 credits at the college equal 66 credits and require a minimum average of 2.00.

ADDING A COURSE

Students may add a course during the first week of the semester

DROPPING A COURSE

A. *During the first six weeks of a semester* a student may drop a course, thereby receiving no grade.

B. *After the first six weeks of a semester* a student may not drop a course except for special reasons and emergencies. The student secures a drop form from the department involved, has it signed by the instructor and department chairperson, and returns it to the Office of the Registrar.

If a student is doing passing work at the time of approved withdrawal, he receives a WP, which is not treated as a grade. If he is failing, he receives a WF, computed as an F.

A student who drops a course without official permission is given an F.

Full-time students on financial aid may lose part of their financial aid if they drop to part-time status.

WITHDRAWAL FROM THE COLLEGE

Students wishing to withdraw from the college or take a leave of absence are to go to the Office of the Registrar and follow the prescribed procedures. If illness or some other emergency interrupts the student's college work, he or she must notify the Office of the Registrar at once. Unless a student withdraws officially, F grades will be recorded for unfinished courses.

REINSTATEMENT AND READMISSION

A student whose cumulative index is below that required for retention may attend summer sessions at West Chester in order to improve the index. If the deficiency is corrected during the summer, the student is reinstated as a degree candidate. If, however, the required cumulative index is not attained by the close of summer sessions, candidacy is terminated. The student must remain away from West Chester for one full semester before taking part-time work in an effort to be readmitted.

All students must apply formally for readmission as full-time degree candidates; however, no application is necessary, other than proper registration, for part-time work taken to qualify.

Students dismissed for academic reasons are eligible for readmission if they qualify through part-time work taken after the first dismissal. A second academic dismissal terminates degree candidacy at West Chester.

ROOM RESERVATION POLICY FOR REINSTATED STUDENTS

Those students living in college dormitories who are in academic difficulty at the close of the spring semester should consult with the housing office as to their eligibility for continued housing on campus.

ADVANCED PLACEMENT PROGRAM

Courses taken under the Advanced Placement Program offered by the College Entrance Examination Board may be applied toward advanced placement in the college and/or toward credit requirements for graduation. The college recognizes the grade of 3.0 or above as acceptable.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

West Chester State College encourages the non-traditional student to use CLEP subject examinations especially if he or she has not yet applied for admission to West Chester State. While a non-traditional student may utilize CLEP exams after gaining admission to WCSC, the student is urged to examine carefully the merits of the credit-by-examination option for individual courses offered by the college. Traditional college students (those who are admitted immediately after high school), should take advantage of advanced placement or credit-by-examination options available at West Chester State College.

West Chester State accepts SUBJECT Examinations in which the score is greater than the 50th percentile. Course credit is given only where the Subject Examination can be applied to specific courses offered most commonly in the general requirements program or in free electives. Those interested should become familiar with the subject areas included in such programs of general study. Courses are accepted as degree credit only; while no grade is recorded, a specific number of credit hours is recorded.

West Chester State does NOT accept the General Examination of CLEP.

INDEPENDENT STUDY AND CREDIT BY EXAMINATION

Enrolled students desiring approval for independent study or credit by examination must apply on forms available from the Office of the Registrar. A fee of $25 is charged for enrolling for credit by examination. The privilege of independent study or credit by examination is subject to the following conditions:

1. Application within the first two weeks of a semester

2. A cumulative index of at least 2.00 in the major area
3. Evidence of a satisfactory academic background for the course
4. The student has not already completed a more advanced course which presupposes knowledge gained in the course. For example, credit by examination cannot be given for French 101 after the student has passed French 201

Students who have taken a course but have not achieved a satisfactory grade may not apply for credit by examination for the same course.

TRANSFER OF CREDIT

Advanced credit may be granted for equivalent courses completed in accredited institutions of collegiate grade. Credit for work completed at an unaccredited institution may be granted upon the recommendation of the student's major department in consultation with the dean of academic services. (See also Admissions.)

Effective for students who entered the college after September, 1973, D grades are accepted for transfer if the credit is for equivalent courses within the framework of general requirements or free electives, provided the transferred course does not satisfy a major field requirement as well.

D grades considered for transfer for a major program requirement are treated in the same manner as the major department treats D grades earned at West Chester, that is, the student's major department may require the course to be repeated.

If the student is required to repeat a course in which a D was obtained, the course originally considered for transfer will not be accepted for any type of credit. Likewise, if a student changes his major, D grades originally approved for transfer will be re-evaluated by the new major department.

IN ORDER TO RECEIVE FULL CREDIT FOR COURSES TAKEN ELSEWHERE AND FOR PROFICIENCIES DEMONSTRATED ON ADVANCED PLACEMENT OR CLEP EXAMINATIONS, THE TRANSFER STUDENT SHOULD HAVE THIS WORK EVALUATED PRIOR TO ENROLLING IN ANY POTENTIALLY EQUIVALENT COURSES AT WEST CHESTER.

POLICY ON CORRESPONDENCE COURSES

The college does not allow credit for courses taken through correspondence.

TRANSIENT STUDENT STATUS—TAKING COURSES OFF CAMPUS

West Chester State College students who wish to enroll at another institution and have the credits count towards a West Chester degree fill out and turn in a transient student application in the Office of the Registrar prior to enrolling at the other institution. Students who fail a course at West Chester may not repeat the course at another institution and have the credits count towards a West Chester degree.

In case of doubt as to which West Chester course is the equivalent to the course to be taken elsewhere, the student should consult with the chairperson of the West Chester department offering such courses.

GRADUATE CREDIT

An undergraduate who is in the final semester of work for the bachelor's de-

gree and has an overall grade point average of at least 3.0 may, with the permission of the dean of graduate studies, enroll in up to six credits of graduate level course-work. Credits earned may be applied to a master's degree program.

REQUIREMENTS FOR GRADUATION

A student is recommended for graduation upon the satisfactory completion of a minimum of 128 semester hours and upon fulfillment of all categories of the requirements for his degree. A minimum cumulative index of 2.00 (C) is required for graduation. Degree requirements are detailed under the heading of the subject field. See also "Requirements for the Baccalaureate Degree" cited at the beginning of this section. A student must file for graduation at the beginning of the semester in which the student will complete the requirements.

RESIDENT CREDIT REQUIREMENT

To qualify for graduation, a student must take at least 30 semester hours of credit at West Chester. Normally the student will take the last 30 semester hours at West Chester.

REQUIRED NOTICE OF INTENTION TO GRADUATE

Students intending to graduate in May or August must come to the Office of the Registrar and give Notice of Intention to Graduate no later than February 1. Students intending to graduate in December must give such notice no later than October 1. The baccalaureate degree will not be granted unless this requirement is met.

After submitting this notice, the student will receive a cap-and-gown order form and a bill for the graduation fee. He or she will also specify how his or her name should be shown on the diploma and commencement program. Unless the deadline is met, it will be impossible for the college to order a diploma, place the name on the forthcoming commencement program or have the transcript reflect the appropriate date of graduation.

GRADUATION HONORS

Graduation honors are awarded as follows:

	Cumulative Index
cum laude	3.25—3.49
magna cum laude	3.50—3.74
summa cum laude	3.75—4.00

The Honors List for Commencement is necessarily calculated at the close of the seventh semester. Those who do not attain honors distinctions until the end of their final semester will have recognition of their achievement on their transcripts, where all honors distinctions are recorded.

To be eligible for honors distinctions, transfer students must have completed a minimum of 64 semester hours, or four full time semesters, at West Chester.

TRANSCRIPTS

Requests for official transcripts are made by writing to the Office of the Registrar, Learning and Research Center. West Chester graduates are not charged for

their first transcript but pay $1 each for subsequent transcripts. Checks, payable to the Commonwealth of Pennsylvania, must accompany all but the first request.

DIRECTORY INFORMATION—RIGHTS TO PRIVACY ACT OF 1974

West Chester State College has, in the past, made public certain kinds of information about students, such as, the names of those who receive scholarships, who hold offices, or who are members of athletic teams. Various kinds of campus directories are published throughout the year to help members of the college community locate and communicate with each other. The commencement programs publish the names of those who have received degrees during the year.

The Family Educational Rights and Privacy Act of 1974 defines the term "directory information" to include the following categories of information: the student's name, addresses, telephone numbers, date and place of birth, major field of study, participation in offically recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The college will limit information which is made public to categories such as these but will not necessarily publish all such information in every listing.

Undergraduate students who *do not wish* to have any or all of such "directory information" published without their prior consent must file notice in the Office of the Registrar and graduate students in the Graduate Office. A signed, dated statement specifying items not to be published must be brought by the student to the appropriate office within the first fifteen calendar days after the beginning of the fall semester.

PROGRAMS OF STUDY AND COURSE OFFERINGS

For the convenience of readers, the arrangement of course offerings is alphabetical by department or area of study.

Students may obtain a typical sequence of courses for any of the programs from the offices of the appropriate school or department.

All courses, course substitutions, and course sequences are subject to change.

American Studies

Perry F. Hoberg and Richard J. Webster
Coordinators

Offered jointly by the Schools of Arts and Letters and Social and Behavioral Sciences

Students are exposed to a broad spectrum of American culture and given opportunities to relate the knowledge thus acquired to their vocational interests through concentrations in American Art History, Black Studies, Ethnic Studies, Historic Preservation, Journalism, and Museum Studies. An optional internship provides on-the-job experience.

BACHELOR OF ARTS—AMERICAN STUDIES

1. General Requirements see page 70	44 s.h.
2. Foreign Language Requirements	6 s.h.
3. Required Core	23 s.h.
Proseminar and Field Experience (AMS 300)	3
American Literature I-II (LIT 200-201)	6
History of the United States I-II (HIS 151-152)	6
Material Culture of U.S. I, II, or III (AMS 301, 302, or 303) (choose any two)	6
Senior Thesis or Project (AMS 400) or American Studies Internship (AMS 415, 416)	3-12

4. Elective Core 24-33
   Five American-topic courses are to be taken in Anthropology, Art, Government and Politics, History, Literature, Music, Philosophy, Sociology, with no more than two courses from one discipline.
5. Elective Concentration
   Enough courses to insure that a minimum of 128 s.h. are taken. Each American Studies major is to submit for approval a proposal for a course of study and a sequence of courses. For guidance in the selection of a course track consult either of the American Studies Program Coordinators.

COURSE DESCRIPTIONS

Symbol: AMS

AMS 300 Proseminar and Field Experience (3) Orientation to a methodology and bibliography of American Studies as an interdisciplinary investigation and practical experience through fieldwork.

AMS 301 Material Culture of U.S. I: Art and Images (3) Colonial period. Cultural approach to development of American values related to visual expression and imaging. Cross-study analysis of the impact of image and object on folk and elite traditions interacting with Indian culture.

AMS 302 Material Culture of U.S. II: Art and Images (3) 19th century. Emphasis on ethnic contributions to the "American mainstream." Particular focus on black Americans.

AMS 303 Material Culture of U.S. III: Art and Images (3) 20th century. Art movements are related to the changed social climate generated by technological materialism. Dehumanization and the development of a new humanism. Particular focus on the influence of youth and counterculture.

AMS 305 American Decorative Arts (3) Study of decorative and utilitarian objects of the American household environment from Colonial period through World War I.

AMS 400 Senior Thesis or Project (3) A concluding "statement" incorporating the interdisciplinary generalist approach.

AMS 401 Independent Studies (1-3) An opportunity to pursue alternative outside-the-classroom study projects; field work in community resources, etc.

AMS 415, 416 American Studies Internship (3-6) Cooperative service-learning experience at community agency, business, or institution.

Anthropology, Sociology, and Social Welfare

Martin Murphy,
Chairperson

PROFESSORS: Becker, Samuelson, Yeakel
ASSOCIATE PROFESSORS: Bartlett, Luck, Main, Murphy
ASSISTANT PROFESSORS: Bamat, Cowen, McCullough, McCutcheon, Monos, Wingate, Witthoft

The department is organized into two divisions: anthropology-sociology and social work. The faculty of the anthropology and sociology division offer three undergraduate courses of study leading to Bachelor of Arts degrees; and, in cooperation with the faculty of teacher education, Bachelor of Science in Education degrees: Comprehensive Social Studies with a concentration either in anthropology or in sociology. The faculty of the social work division offer a baccalaureate degree program as well as extension courses through the Social Welfare Institute for Professional Development (see page 93)

ANTHROPOLOGY AND SOCIOLOGY DIVISION DEGREES

1. B.A. in Anthropology. The course of study in anthropology focuses on man's biological evolution; on the origin, development and integration of human cultures; and on the interrelationship of biological and cultural factors in the etiology of human behavior.
2. B.A. in Sociology. The course of study in sociology centers on understanding the processes involved in the creation, maintenance and evolution of social structure, and on the impact of diverse structural forms on individual behavior.
3. B.A. in Social Anthropology (Anthroplogy/Sociology). The course of study in social anthropology/comparative sociology is interdisciplinary, drawing upon offerings in both sociology and anthropology to develop an analytic understanding of the dialectic of social structure and culture.

Majors in the three B.A. courses of study should consult the appropriate department handbooks and their academic/disciplinary advisor for current requirements. Students planning to major in one of these courses of study are advised to take ANT 102 and SOC 200 no later than their sophomore year. A grade of at least B in each of these courses is necessary for admittance. Application for admission is made on forms available from the department office.

Students planning to pursue the B.S. in Education: Comprehensive Social Studies degrees should consult during the freshman year with both their academic advisor in this department as well as with their professional studies advisor among the faculty of teacher education.

REQUIREMENTS COMMON TO THE B.A. PROGRAMS

1. General Requirements, see page 70 44 s.h.

2. Foreign Language Requirement — 3 s.h.
   (second half of the intermediate year)
3. Social Science Core, see page 72 — 21 s.h.
4. Major Requirements — 60 s.h.

BACHELOR OF ARTS—ANTHROPOLOGY TRACK

1. Required Core Courses — 9 s.h.
   ANT 101, 103, 495 (ANT 102 under social science core)
2. Specialization Requirements — 12-21 s.h.
   Four to seven courses in anthropology
3. Cognate Requirements — 15 s.h.
   LIN 203; additional courses outside of anthropology approved by the student's advisor
4. Free Electives — 15-24 s.h.

BACHELOR OF ARTS—SOCIOLOGY TRACK

1. Required Core Courses — 21 s.h.
   a. Theory Core (15 s.h.)
      SOC 300, 301, 302, 401, 403
   b. Methodology Core (6 s.h.)
      SOC 322, 421
2. Specialization Requirements — 15 s.h.
   a. SOC 492 (Comprehensive Examination)
   b. Any four advanced courses in sociology
3. Cognate Requirements — 12 s.h.
   Any four non-sociology courses approved by the student's advisor
4. Free Electives — 12 s.h.

BACHELOR OF ARTS—SOCIAL ANTHROPOLOGY TRACK

1. Anthropology-Sociology Core Courses — 6 s.h.
   ANT 341, SOC 302
2. Anthropology — 12 s.h.
   Two topical and two area courses in ethnology, selected in consultation with the student's advisor
3. Sociology — 12 s.h.
   One methodology and three topical (institutional or theoretical) courses, selected in consultation with the student's advisor.
4. Seminar — 3 s.h.
   ANT 490
5. Cognates — 12 s.h.
   Four courses selected in consultation with the student's advisor.
6. Free Electives — 15 s.h.

Bachelor of Science in Education
Comprehensive Social Studies: Anthropology or Sociology (concentration)

Students interested in teaching secondary school social studies may pursue a concentration in anthropology or sociology while earning state certification and the Bachelor of

Science degree. See description under COMPREHENSIVE SOCIAL STUDIES: B.S. IN EDUCATION, Page 115.

COURSE DESCRIPTIONS

ANTHROPOLOGY

Symbol: ANT

PRIMARILY FOR FRESHMEN AND SOPHOMORES

101 Introduction to Anthropology: Biological (3) Fundamentals of human biology, evolution, and the prehistoric development of culture. Spring, odd years.

102 Introduction to Anthropology: Cultural (3) Comparative analysis of culture systems. Fall, spring, summer.

103 Introduction to Anthropology: Archaeology (3) Interpretation of culture through analysis of archaeological remains. Spring, even years. Summer.

113 Archaeological Field Techniques (3) Implementation of archaeological principles and theory in laboratory and field studies. PREREQ OR CONCURRENT: ANT 103. Summer.

120 Cultures of Ethnic Groups in America (3) Survey of the cultural history and traditions of ethnic groups in America. Fall, odd years.

140 Folklore in Society (3) Survey of basic American folklore genres. Emphasis on folklore as process, tradition, and as an element of culture. Fall, even years.

FOR SOPHOMORES AND UPPERCLASSMEN

202 World Ethnology (3) Survey of the social organization, belief systems, and cultures of selected peoples. PREREQ: ANT 102 or permission of instructor. Spring, even years.

260 (also HIS 353) Artifacts and Culture (3) See HIS 353. PREREQ: ANT 102.

280 Practicum in Museum Techniques I (3) Exploration of techniques of cataloging, conserving objects, and of designing and setting up exhibits. Involvement in actual museum work. PREREQ: ANT 102 or permission of instructor. Fall, odd years.

FOR UPPERCLASSMEN

A. **BIOLOGICAL ANTHROPOLOGY**

310 Human Paleontology (3) Evolutionary thought; origin and antiquity of the primates; fossil man and living races. PREREQ: ANT 101. (Some background in biology recommended.)

B. **ETHNOLOGY: AREA COURSES**

320 American Indian (3) Ethnology of North America. PREREQ: ANT 102. Fall, even years. Summer.

321 American Indian Today (3) Native Americans in contemporary Anglo- America. PREREQ: ANT 102 or permission of instructor. Spring, odd years. Summer.

322 Ethnology of Central America (3) Survey of the modern cultures of Central America: relationships to ancient peoples; the process of modernization in this area. PREREQ: ANT 102.

326 Cultures and Peoples of Sub-Saharan Africa (3) Examination of the cultures and societies of Black Africa. PREREQ: ANT 102. Spring, even years.

327 (also HIS 302) Cultures and Peoples of India (3) See HIS 302. PREREQ: ANT 102.

329 Problems in Ethnology (3) Survey of the ethnographic literature pertaining to specific geographic regions. Area of focus to be announced in advance. PREREQ: ANT 102. Fall, even years.

C. **ETHNOLOGY: TOPICAL COURSES**

341 Social Organization (3) Study of social groups, their structure and functioning. PREREQ: ANT 102. Spring, odd years.

342 Political Anthropology (3) Analysis of tribal and peasant political systems. PREREQ: ANT 102. Fall, odd years.

343 Economic Anthropology (3) Analysis of tribal and peasant economic systems. PREREQ. ANT 102. Spring, odd years.

344 Magic, Religion, and Witchcraft (3) An analysis of supernaturalistic ideology and ritual in both tribal and civil society. PREREQ: ANT 102. Spring, even years. Summer.

345 Culture and Personality (3) Study of relationship between culture systems and personality. PREREQ: ANT 102. Fall, even years.

346 Culture Change (3) Empirical and theoretical study of culture change PREREQ: ANT 102. Fall, even years

350 (also Art 350) Primitive Art (3) See ART 350. PREREQ: ANT 102.

D. ARCHAEOLOGY

360 Historical Archaeology (3) Historical research through archaeology. Chester County is emphasized through local research projects. PREREQ OR CONCURRENT: ANT 103. Summer.

362 Archaeology of Central America (3) The archaeological record of Central America, covering the significant features of each culture area from modern Mexico to Panama. PREREQ: ANT 103.

ADVANCED AND SENIOR COURSES

405 Topical Seminar in Anthropology (3) Selected topics in the subdisciplines of anthropology Topics announced in advance. Juniors and seniors only. Spring.

410 Independent Studies in Anthropology (1 to 3) Special research projects, reports, readings in anthropology. Juniors and seniors only. PREREQ: Permission of department chairperson. Fall, spring, summer.

459 History of Ethnological Theory (3) Development of ethnological theory with emphasis on the nature of explanation in ethnology. PREREQ: Six hours in ethnology and junior or senior standing. Fall

490 Seminar in Social Anthropology (3) History and theory of social anthropology. PREREQ: Six hours in ethnology and six hours in sociology. Seniors only. Spring.

495 Senior Seminar in Anthropology (3) Discussion and supervised research designed to integrate conceptual and methodological skills. The research paper for the seminar must be acceptable as a required departmental senior research paper. Senior anthropology majors only. Fall.

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

500 Strategies and Techniques in Anthropological Research (3)

512 Ethnographic Studies (3)

515 Problems in Anthropology (3)

555 Proseminar in Urban Anthropology (3)

580 (also LIN 580) Language and Culture. See LIN 580.

595 Seminar in Anthropology (3)

599 Independent Studies in Anthropology (1 to 3)

SOCIOLOGY

Symbol: SOC

PRIMARILY FOR FRESHMEN AND SOPHOMORES

135 Explorations in Human Relations (1) Developing awareness of self and others through

understanding values, attitudes, and feelings related to race, ethnicity, sexism and differing life styles. (A course for full-time students offered as part of the college Orientation Program). Summer, spring.

200 Introduction to Sociology (3) Fundamentals of the sociological perspective on human behavior. Fall, spring, summer.

235 Racial and Ethnic Understanding (3) A human relations course designed to facilitate inter-racial and inter-ethnic understanding. Fall, spring, summer.

240 Sociology of the Family (3) Comparative, historical, and cross-cultural analysis of the family institution. Fall, spring, summer.

250 Contemporary Social Problems (3) Analysis of current social disorders; urban unrest, racial tension, poverty, addictions, crime, and mental illness. Fall, summer.

PRIMARILY FOR SOCIOLOGY MAJORS AND OTHER UPPERCLASSMEN

299 The Sociological Perspective (3) Overview of sociology as a discipline and profession. PREREQ: SOC 200. Spring.

300 Sociological Theory to 1920 (3) Historical development of the sociological perspective on human behavior; emphasis on the perennial issues in sociological explanation. PREREQ: SOC 200. Fall.

301 Self and Society (3) The emergence, maintenance, and transformation of the self in social interaction. PREREQ: SOC 200. Fall.

302 Analyzing Social Structure (3) Discussion of the major concepts employed in the analysis of social structure and of the impact of various features of social structure on human behavior. PREREQ: SOC 200. Spring.

322 Methods of Sociological Research (3) The logic of social research. Fundamentals of research design, data collection and reduction, and non-statistical analysis. PREREQ: SOC 200. Fall.

335 Racial and Cultural Minorities (3) Analysis of the implications of racial differences, the factors affecting prejudice and discrimination, and structural aspects of group conflicts. PREREQ: SOC 200. Spring.

341 Social Stratification (3) Analysis of inequalities in wealth, power, and prestige in contemporary societies. PREREQ: SOC 200. Odd years.

342 Urban Sociology (3) A descriptive study of the form and development of the urban community with respect to demographic structure, spatial and temporal patterns, and functional organization. PREREQ: SOC 200. Fall.

343 Complex Organizations (3) Analysis of large-scale formal organizations with emphasis on bureaucracy as the dominant form of social organization in the West. PREREQ: SOC 200. Spring.

344 Sociology of Religion (3) Theoretical analysis of social functions of religion; history and internal structure of religious institutions; their relationship to other institutions. PREREQ: SOC 200. Fall, odd years.

345 Sociology of Education (3) Sociological dimensions of educational institutions. PREREQ: SOC 200. Fall.

351 Deviance (3) Causes and consequences of the construction and violation of social norms. PREREQ: SOC 200. Fall.

352 Criminology (3) Sociological analysis of the definition, distribution, and causes of crime, and of social response to it. PREREQ: SOC 200. Fall, spring, summer.

353 Juvenile Delinquency (3) Theories of delinquency; evaluation of programs for its prevention and control. PREREQ: SOC 200. Spring, summer.

361 Sociology of Medicine (3) A sociological perspective on health, illness and medical care. PREREQ: SOC 200.

362 Sexuality in Society (3) The social dimensions of human sexuality. PREREQ: SOC 200. Spring, odd years.

363 Small Groups (3) Critical survey of group techniques designed to change behavior through interpersonal or collective experience. PREREQ: SOC 200. Spring, even years.

371 Applied Social Change (3) Strategy and tactics of planning and guiding change in small and large-scale social systems. PREREQ: SOC 200. Spring.

401 Social Stability and Change (3) Critique of the leading models of social order and change; analysis of major transformation in Western civilization. PREREQ: SOC 200. Fall.

403 Sociological Theory Since 1920 (3) Theories of social order. Logic of theory construction and evaluation. PREREQ: SOC 200. Senior standing recommended. Spring.

410 Problems in Sociological Analysis (3) Analysis of several of the key philosophic issues underlying sociological thought. PREREQ: SOC 300 and/or 302, or permission of the instructor. Fall.

421 Statistics in Sociological Research (3) The application of statistical methods to sociological hypothesis testing. PREREQ: SOC 200. Spring.

490 Independent Studies in Sociology (1 to 3) Individual research projects, reports, and/or readings. Seniors only. PREREQ: permission of department chairperson. Fall, spring, summer.

491 Topical Seminar in Sociology (3) Special topics in theory or methodology. Topics announced in advance. Admission by permission of instructor. Juniors and seniors only.

492 Senior Seminar in Sociology (3) Preparation for Comprehensive Examinations. Senior sociology majors only. Spring.

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

500 Research Design (3)

521 (also CRJ 521) Youth and Delinquency (3)

531 Social Problems (3)

532 History of Sociological Theory (3)

533 American Minorities (3)

538 (also CRJ 538) Crime and Justice (3)

539 (also CRJ 539) Deviance and Control (3)

540 (also LIN 540) Sociolinguistics (3)

543 The Sociology of Complex Organizations (3)

550 Seminar in Sociology (3)

590 Independent Studies in Sociology (1 to 3)

Social Work Program

John A. Main
Program Director

The Social Work Program combines a liberal arts foundation with the analytical framework of the social and behavioral sciences and the principles and methods associated with the professional practice of social work. The student applies theory to practice in the varied field experiences of the sophomore, junior, and senior years. The ultimate goal of this program is to have the student develop a basic competency in generic social work practice.

The Social Work Program is accredited as a professional degree in social work by the Council on Social Work Education.

Admission to the program is limited, because of the limited number of approved field placement agencies. Those students interested in majoring in Social Work should take Introduction to Social Welfare I and II (SWO 200 and SWO 201) during the fall and spring semesters of their sophomore year. They are advised to apply for admission at the beginning of the spring semester of their sophomore year. Applications for admission to the Social Work Program will be reviewed by the Admissions and Standards Committee of the Social Work Program during the spring semester of the applicant's sophomore year. To be eligible for consideration for admission the student must have achieved at least an average of 2.5 in social science courses and a B in Introduction to Social Welfare (SWO 200).

TRANSFER STUDENTS FROM OTHER COLLEGES

Those students transferring from other colleges as sophomores or juniors will be directed by the Admissions Office of the college to make an appointment with an appropriate faculty member of the Social Work Program to discuss their status in regard to admission to the program. A limited number of openings are held for transfer students with A.A. Degrees in Social Work or Human Services. Transfer students with no academic background in the helping professions will be asked to enter the program through the admissions procedure described above.

INSTITUTE FOR PROFESSIONAL DEVELOPMENT

In 1972, the Social Welfare Institute for Professional Development, designed for persons employed in the human services, was introduced. The institute has two facets. The first is designed for workers without college preparation who wish to enhance their on-the-job skills. The second is designed for workers who have baccalaureate degrees in other areas but lack specific professional preparation for social work.

Courses related to on-the-job skills are in interviewing (SWO 250, 251), information and referral (SWO 260, 261) the communication and collaboration process (SWO 270, 271), and supervision (280, 281).

A professional social work sequence is available for students with baccalaureate preparation in other areas. These students take social work courses lacking in their previous preparation plus a supervised field practicum. Concurrent job responsibilities supply a framework for courses and practicum whenever possible. A vocational certificate carrying equivalent professional recognition is available to students completing the program.

SOCIAL WORK FIELD PLACEMENTS

Chester County Board of Assistance
Chester County Children's Services
Chester County Farms
Crozer-Chester Medical Center
Delaware County Child Care Services
Delaware County Day Care Association
Delaware County Intermediate Unit
Delaware County Juvenile Court
Embreeville State Hospital
Family Service-Mental Health Centers of Chester County
Family Service of Delaware County
Freedom Valley Girl Scout Council
Hospital of the University of Pennsylvania
Jefferson Hospital
Mental Health and Mental Retardation Board of Chester County, Base Service Unit
Norristown State Hospital
Pennhurst State School and Hospital
United Farm Workers
West Philadelphia Consortium
Wilmington School District

BACHELOR OF ARTS—SOCIAL WORK

1. General Requirements, see page 70 — 44 s.h.
2. Foreign Language Requirements (second half of the intermediate year) — 3 s.h.
3. Social Science Core, see page 72 — 21 s.h.
4. Social Work Concentration: SWO 300-301, 320-321, 350, 420-421, 430, 450-451, 495-496. — 39 s.h.
5. Cognates (Psycho-Social Foundation) Select four courses, under advisement — 12 s.h.
6. Electives — 9 s.h.

Social work majors should choose with their advisor an interdisciplinary elective program geared to their learning needs and professional interests.

COURSE DESCRIPTIONS

Symbol: SWO

PRIMARILY FOR SOPHOMORES

200 Introduction to Social Welfare I (3) Current social problems and the influence of societal values upon their definition and upon the structures devised to meet them. Two hours per week of volunteer experience in a social agency. Fall.

201 Introduction to Social Welfare II (3) The history of social welfare in the United States, and an overview of major fields of social work practice with emphasis upon legislation and policy formulation. Spring.

INSTITUTE COURSES

240 Framework for Social Work Practice (2) A historical survey of the cultural, economic and political forces influencing social welfare legislation and social work practice. Fall, spring, summer.

250 Human Problems and the Interviewing Process I (2) The development of more effective responses to the dynamics of human behavior within the interview. Current interviewing experience necessary. Fall, spring, summer.

251 Human Problems and the Interviewing Process II (2) Advanced techniques of interviewing. Current interviewing experience necessary. Fall, spring.

260 Information and Referral I (2) Interviewing skills for the collection of factural information and for problem assessment; an analysis of the network of local human services and procedures for referral. Fall, spring, summer.

261 Information and Referral II (2) The compilation of case histories, case summaries and referral summaries; the dynamics of inter-agency, inter-disciplinary collaboration and follow-through. Fall, spring, summer.

270 Dynamics of Staff Collaboration I (2) An exploration of the concepts of role and function as they relate to various positions within social agencies. Fall, spring, summer.

271 Dynamics of Staff Collaboration II (2) Theoretical framework building upon basic concepts developed in SWO 270. Fall, spring.

280 Social Work Supervision I (2) An integration of theoretical content with the practice of supervision, taking into account the unique characteristics and problems of social agencies. Fall, spring.

281 Social Work Supervision II (2) Use of generic social work principles and concepts for the supervisor as teacher, administrator, and model for practice. Fall, spring.

290 Dynamics of Case Management (2) An examination of the following areas of social work practice skills: problem assessment, the professional relationships, short term counseling, crisis intervention, and systems analysis. Fall, spring.

291 Job Design and Organizational Development (2) A study, with a practical exercise, of organizational theory as it deals with small units of workers. Fall, spring.

B.A. COURSES FOR SOCIAL WORK MAJORS AND OTHER UPPERCLASSMEN

300 Social Welfare Systems I (3) Introduction to selected items in systems analysis, emphasizing application to understanding the institutional and organizational framework of human behavior. Fall.

301 Social Welfare Systems II (3) Systems concepts applied in the study of selected social-structural problems, various systems responses, and implications for social work practice. Spring.

320 Principles and Methods of Social Work Practice I (3) A systems approach to the use of generic principles and methods of social work practice. Fall.

321 Principles and Methods of Social Work Practice II (3) A continuation of SWO 320.

325 Race Relations and Social Work Practice (3) An examination of the significance of racial, ethnic, and cultural difference as potential variables of the helping relationship in social work. Summer.

350 Psycho-Social Foundations of Human Behavior (3) Life cycle of individual development in a framework of interrelationships of self-concept, reference groups, social reality, and social role. Fall.

375 Field Placement (3) Junior year field experience for the social work major. Spring.

410 Independent Studies in Social Work (1 to 3) Special research projects or practices in social work. Juniors and seniors only. PREREQ: permission of department chairperson. Fall, spring, summer.

430 Introduction to Social Research (3) Introduction to the nature and function of the research process, emphasizing application in social work practice and research.

431 Methods of Social Inquiry (3) Fundamentals of problem identification, research design, sampling, observation, data collection and reduction, and non-statistical analysis. Spring.

450-451 Field Experience I-II (6) (6) Supervised work experience in social agency. Seniors only. Fall, spring.

495 Senior Seminar in Social Work (3) Integration of field and classroom experiences into a professional framework for the social work helping process. Fall.

496 Social Work Process Seminar (3) Seminar on social work process designed to relate to the second semester field experience. Fall.

ADVANCED UNDERGRADUATE AND GRADUATE COURSES

520 Theory for Social Work Practice (3)

521 Social Work with Women in Transition (3)

522 Family Therapy in Social Work (3)

542 (also CRJ 542) Interviewing and Counseling the Offender I (3) (See CRJ 542).

543 (also CRJ 543) Social Rehabilitation of the Offender (3)

Art

Perry F. Hoberg
Chairperson

PROFESSOR: Hemphill
ASSOCIATE PROFESSORS: Hawthorne, Hoberg, Lasuchin, McKinney, Sermas, Simmendinger, White
ASSISTANT PROFESSORS: Blake, Defino, Rarick, Shapiro
INSTRUCTORS: Baker, Reed

The undergraduate programs offered by the Department of Art give students the opportunity to achieve competence in the practice, theory and history of art taking into consideration both personal and vocational needs. Each student's advisement reflects an effort to relate the general requirements to art subjects.

In addition to the formal programs listed below, alternative courses of study may be planned in conjunction with other departments. Students are encouraged to make connections between art and other subjects where appropriate to achieve vocational and personal advancement. Proposals for alternative programs should be made to the department after consultation with the student's advisor.

BACHELOR OF ARTS—ART

1. General Requirements (see page 70) — 44 s.h.
2. Language Requirement (Intermediate II Level for tracks Band C. Intermediate I level or 200 course for track A) — 3 s.h.
3. Arts and Letters Requirement — 15 s.h.
4. Art Department Program Requirements (Select One)
   - A *Studio Art I* sequence—(prepares student for graduate study and/or personal/vocational competence)
     - (1) Studio Foundation—(106, 111, 112, 206, 220, 221) — 18 s.h.
     - (2) Art History—(elect from any art history, aesthetics, museum, or AMS 301, 302, 303, 305 courses) — 12 s.h.
     - (3) Other Studio—(elect from studio offerings.) — 42 s.h.
     - Total — 72 s.h.
   - B. *Studio Art II* sequence—(provides a minimal concentration with wide choice of free electives or second concentration options)
     - (1) Studio Foundation—(106, 111, 220) (additional foundation course(s) required dependent upon media concentration) — 9 s.h.
     - (2) Art History—(any art history, aesthetics, museum, or AMS 301, 302, 303, 305 courses) — 12 s.h.
     - (3) Other Studio—(elect from studio offerings. See special note below) — 15 s.h.
     - Total — 36 s.h.
   - C. *Art History*—(preparation for graduate study in art history or museum study)
     - (1) Art History Foundation—(350, 381, 382, 383, 384, 385, 386) — 21 s.h.

(2) Studio Foundation—(106, 111, 220) 9 s.h.
(3) Other Art History—(elect from any other art history, aesthetics, museum, AMS 301, 302, 303, 305 courses) 6 s.h.
Total 36 s.h.
(4) Majors are advised to take additional art history unless considering a double concentration or other interdisciplinary goals.

Special Note: Studio majors are advised to consider concentration emphasis in general categories of 2-dimensional, 3-dimensional, or inter-media, or, if the subject area permits, more specialized concentration in single or limited media.

Other considerations: Studio Art II majors may consider a second concentration in art history, or vice versa. Or, in either case, a second concentration with another major department may be considered.

Internships are also available in certain areas such as museums, historical societies, or institutions where art therapy or other art services may be required.

5. As appropriate, free electives complete 128 s.h. program.

COURSE DESCRIPTIONS

Symbol: ART

101 Learning to Look: Fine Arts, Art (3) An appreciation course covering various art forms of twentieth century with emphasis on selected historical antecedents.

102 Roads to Renaissance: Introduction to Art History I (3) Survey of significant art and architectural monuments from prehistory through Middle Ages. Includes Western and Eastern civilizations.

103 Movements to Modernism: Introduction to Art History II (3) Continuation of ART 102 from Renaissance through twentieth century.

104 Survey of Art History (3) A condensed one semester version of ART 102 and 103.

105 Art Workshop (3) An art workshop for non-art majors. Exploration of art materials and techniques.

106 Beginning Drawing (3) Drawing from direct observation and an introduction to ideas of perception and interpretation. Use of a variety of media.

111 Basic Design (2-D Design) (3) Experimentation with shape, space, light, color, texture in a variety of media toward developing a visual vocabulary.

112 Color and Design (2-D Design) (3) Extensive study of color theory and its application to a variety of fine and industrial art projects.

206 Intermediate Drawing (3) Work in a variety of media and methods designed to develop "aggressive seeing." Emphasis on the exploration of line as boundary to describe form and space, as gesture, as calligraphy, and for expressive qualities as a tool for working in other media. PREREQ: ART 106.

211 Graphic Design I: Lettering and Layout (3) Exploration of the design aspects of lettering and layout for communication.

212 Graphic Design II: Graphic Concepts (3) Continuation of ART 211 with emphasis on expressive possibilities of lettering and typography. Further study of production methods and use of silk-screen techniques as means of reproduction. PREREQ: ART 211, 242, or permission of instructor.

216 Beginning Painting (3) An introduction to the basic materials and techniques of the painter with emphasis on color.

217 Intermediate Painting (3) Advanced work with models, still life, landscape. Emphasis upon technique and composition.

220 Fundamentals of 3-Dimensional Design (3) An introduction to theories, processes, and elements of perception and visual design in a three-dimensional situation. Problems will be geared to problem solving rather than object-making.

221 Advanced 3-Dimensional Design (3) Experimentation with various materials toward solving problems in terms of visual elements as they relate to volumetric forms in space.

222 Beginning Sculpture (3) An introduction to the basic fundamentals of sculpture, including concepts of design, knowledge of tools and techniques, materials and processes. Project assignments to be rendered in clay, plaster, wood, and stone.

226 Water Color I (3) An introduction to the basic tools and techniques of the water-color painter. Emphasis upon transparent water color.

227 Water Color II (3) Advanced problems in water color, gouache, tempera, and mixed media.

231 Ceramics I: Basic Techniques (3) Introduction to the basic techniques of ceramics. Hand and wheel methods of construction; knowledge of clay bodies, firing, and glazing.

232 Ceramics II: Intermediate Techniques (3) Fundamental methods of creating clay forms on the wheel. Experimentation with clay bodies, glazes, and the operation of the kiln. Design is stressed.

241 Printmaking: Introduction to Relief Printmaking (3) An introduction to the medium of print-making; linoleum cuts, woodcuts, and collographs.

242 Printmaking: Introduction to Silk-Screen Printmaking (3) An exploration of the basic techniques of silk-screen printing. Emphasis upon color and design.

243 Printmaking: Intermediate Relief Printmaking (3) Continuation of ART 241 emphasizing expressive possibilities of various relief techniques and their combination with other print media. PREREQ: ART 241, or permission of instructor.

244 Printmaking: Intermediate Silk-Screen (3) Continuation of ART 242 emphasizing expressive possibilities of various silk-screen techniques and their combination with other print media. PREREQ: ART 242, or permission of instructor.

245 Architectural Drawing (3) Studio experiences in layout; preparation of plans and elevations, presentations, (renderings) and architectural lettering. Use of mechanical drawing tools to help students express steps that occur from design of to realization of a structure.

250 Art in Early Childhood Education (3) For those who will work with very young children, seminar, field experience and workshop activities designed to prepare adults to help children explore, discover, manipulate, imagine, and express.

251 Art in the Elementary School (3) Workshop and seminar providing experience with a wide variety of media appropriate for use with children as well as investigation into the philosophy and psychology of children's art.

263 Art as Therapy (3) Exploration of potentials of art activity chosen for their therapeutic value in work with physically or emotionally handicapped in either educational or therapeutic millieu.

266 Introduction to Crafts (3) An introduction to varied materials with an emphasis on craft and design as a form of expression. Applicable to teaching and recreation use. Media to include clay, fibers, glass and metals.

306 Life Drawing (3) An exploration of the abstract dynamics of figure drawing with particular application of anatomical structure to expressive design. PREREQ: ART 106, 206.

307 Drawing: Independent Projects (3) Individualized instruction in increasingly complex formal and expressive problems in drawing.

310 Graphic Design III: Trademark, Logotype (3) Experimentation with designing trademark and logotype symbols in single and multi-pattern images as applied to a variety of advertising media for private and public agencies. PREREQ: ART 211, 242, or permission of instructor.

311 Graphic Design: Independent Projects (3) Individualized instruction in design problems at an advanced level.

312 Graphic Design IV: 3-D Graphics (3) Problems in advanced design: the application of previous studies in design to specific projects. PREREQ: ART 211, 242, or permission of instructor.

316 Advanced Painting (3) Emphasis upon advanced problems in painting in a variety of techniques encouraging individual expression.

317 Painting: Studio Problems (3) Concentration upon individual work and professional competence. Group critiques and discussions.

320 Painting: Independent Projects (3) Individualized instruction. Preparation for senior show.

321 Intermediate Sculpture (3) More advanced problems in sculpture with emphasis on individual exploration of form, structures, and process. Independent projects to be rendered in choice of materials to include clay, plaster, wood, and stone.

322 Advanced Sculpture (3) Continued exploration and development of individual form and process awareness through involvement with modeling, casting, fabrication, and assemblages. In addition to clay, wood, stone, and plaster, metals and plastics will be utilized.

325 Sculpture: Independent Projects (3) Individualized instruction in advanced sculpture. Preparation for senior show.

331 Ceramics III: Advanced Techniques (3) An advanced course to develop craftsmanship and to explore clay as a means of individual expression.

332 Ceramics: Studio Problems (3) Work at an advanced level in specialized ceramic techniques.

335 Ceramics: Independent Projects (3) Individualized instruction as well as research and study in ceramic design.

341 Printmaking: Introduction to Intaglio Printmaking (3) Intaglio techniques, etching, dryp point, aquatint, and engraving.

342 Printmaking: Introduction to Lithography Printmaking (3) Fundamentals of stone and plate lithography.

343 Printmaking: Intermediate Etching (3) Continuation of 341 with emphasis on expressive qualities of the medium and its possible combination with other print media. PREREQ: ART 341, or permission of instructor.

344 Printmaking: Intermediate Lithography (3) Continuation of ART 342 with emphasis on expressive qualities of the medium and its possible combination with other print media. PREREQ: ART 342, or permission of instructor.

345 Printmaking: Independent Projects (3) Individualized instruction in depth in a selected printmaking medium.

346 Metal Crafts (3) The basic process of jewelry making with emphasis upon creative design. Work in metals, copper, silver, gold.

347 Crafts: Weaving (3) Basic techniques of weaving are explored, with emphasis upon fabric design and craftsmanship.

350 Primitive Art (Also ANT 350) (3) Analysis of primitive art as determined through ritual and myth. Focus includes ethnographic parallels to prehistory and the concept of primitivism in the West.

355 Photography in Art (3) A workshop course emphasizing the basics of photography as an art medium.

356 Outdoor Photography (3) Art studio course with the out-of-doors as studio and subject. Development of basic mechanical skills as a means of increasing personal awareness and sensitivity to photographic opportunities.

357 The Photographer as Artist (3) Examines the creative aspects of photography and how they relate to the photographer as an artist. Production of slides in conformity with technical and creative criteria required.

359 Resources in Art Education (3) An investigation of community and cultural resources for use in art education and their adaptability to the school program.

360 Function of the Museum in Art (3) Role and function of the museum as an educational and cultural institution; its service to school and community.

361 Museum Practice (3) Firsthand experience in museum practice through work at the Brandywine River Museum and other area museums. PREREQ: ART 360.

381 Near Eastern Art: Ancient Antiquity (3) The art and architecture of Ancient Egypt, Mesopotamia, Arabia, Syria, and Palestine from 3000—500 B.C.

382 Art of Classical Antiquity (3) The art and architecture of the Greeks, Etruscans, and Romans.

383 Art of Middle Ages (3) Gothic art and architecture and their development from Early Christian and Romanesque art.

384 Art of Renaissance-Baroque (3) Study of the art forms of the 15th through 17th century in Europe as they affect social and religious crosscurrents.

385 The Romantic Rebellion (3) From David to Rodin: the rise and development of the romantic style and its struggle with orthodox classicism.

386 Modern Art (3) Development of modern art from the work of Cezanne, Van Gogh, and Gauguin through to the art of today. Architecture of the 20th century.

400 Art Seminar (3) Special topics to be announced for studio and art history. Offered periodically as appropriate.

401 Introduction to Contemporary Aesthetics (3) Explores the meaning behind contemporary art forms and the emergence of a new aesthetic.

402 History of Aesthetics (3) Reading and interpreting art documents from the Greeks to the 20th century.

404 Ethnic-American Art (3) Study of ethnic development; adoption and adaptation of Western traditions. Emphasis on relation of art expression to alienation.

405 Russian Art (3) A history of the art and architecture of Russia from Medieval beginnings through social realism to socialist realism.

407 Oriental Art (3) Critical survey of historic art forms, from the earliest beginnings, of all Asia, Near, Middle, and Far East.

409 Weaving: Independent Projects (3) Individualized instruction and project assignments.

411 Latin-American Art (3) An analysis of the impact of Renaissance-Baroque forms and Counter-Reformation theology on native traditions and expressions in the new world.

412 American Architecture (3) A study of the style and structure of American architecture from the 17th century to the present.

413 American Art (3) A survey of American painting and sculpture from Colonial times to the present.

414 Research and Methodology in Art (3) Introduction to basic research methods and the use of reference material relevant to the study of art history.

415 Art History: Independent Studies (3) Opportunity for the student to pursue a particular field of interest. PREREQ: ART 414.

419 Women in Art: Madonna or Model? Traces the position of the woman artist in society and its results. What role has woman played as the subject of painting through the ages? What are women artists creating today?

420 European Architecture (3) Survey of European architecture from the Norman Conquest to the 20th century.

421 Modern Architecture (3) Traces of technological sources of modern architecture from its roots in the nineteenth century through to the late twentieth century. Includes such influ-

ences as the Chicago School, the late Californians, and the Bauhaus, leading to new concepts of space, decoration and use of materials.

455 Introduction to Multi-Media (3) A workshop designed for students with some background in photography and/or sound recording techniques. Creative potentials of combining sound and various photographic arts will be explored.

485 Roman-Greek Archaeology (3) A study of the discovery, preservation, and analysis of Greek, Etruscan, and Roman archaeological finds.

Astronomy—See Earth Sciences

Biology (See also Pre-Professional Program)

Robert W. Bernhardt
Chairperson
Margaret Y. Martinez
Assistant Chairperson

PROFESSORS: Brown, R., Cinquina, DeMott, Dorchester, Overlease, Romig, Woodruff
ASSOCIATE PROFESSORS: Bernhardt, Brown, W., Cullen, Eleuterio, Martinez
ASSISTANT PROFESSORS: Jones, Waber, Webster

The major in biology centers about a core of courses which emphasize broad unifying principles. The foundation subjects—general biology, general botany, and general zoology—are followed by the integrative disciplines of genetics, ecology, and general physiology. Available electives provide enriching experiences in many areas of biology.

The Department of Biology offers three undergraduate degree programs:

BACHELOR OF ARTS—BIOLOGY

The B.A. program in biology provides both the liberal education and the special preparation required for careers in college teaching, government service, independent and industrial research, science-related sales and public relations, and other areas of business. This program also prepares students to qualify for admission to graduate and professional schools.

The requirements for this degree are: Thirty-five credit hours in the supportive sciences (CHE 103-104, CHL 103-104, CHE 231-232, CHL 237, PHY 103-104, MAT 121L, 161). Thirty-four credit hours in Biology (BIO 110, 115, 117, 330, 361, 370, 490, and nine credit hours of BIO electives). Biology 110, 115, and 117 must be passed with a grade of "C" or better. Satisfy the foreign language requirement which applies to all candidates for the B.A. degree. Satisfy all general education requirements of the college.

BACHELOR OF SCIENCE IN EDUCATION—BIOLOGY

The requirements for this degree are: Thirty-one credit hours in the supportive sciences (CHE 103-104, CHL 103-104, CHE 230, CHL 230, ESS 201, ESL 201, MAT 121L, 161, PHY 103), thirty-two credit hours in biology (BIO 110, 115, 117, 150,

330, 361, 370, 490 and six hours of BIO electives). Biology 110, 115, and 117 must be passed with a grade of "C" or better. Twenty-nine hours of professional education courses (see page 215). Satisfy the general education requirements of the college.

BACHELOR OF SCIENCE—CHEMISTRY-BIOLOGY

This cross-disciplinary program operated with the cooperation of the Department of Chemistry enables the student to pursue a career in such fields as marine biology, oceanography, biochemistry and environmental chemistry.

The concentration requirements for this degree are: BIO 110, 115, 117, 330, 361, 214 or 348 or 365 or 370, CHE 103-104, CHL 103-104, CHE 231-232, CHL 237, CHE 321, CHL 321, CHE 345, CHE 471, CHL 471, CHE 491 or BIO 490. Related courses MAT 121L, 161, PHY 103, 104. Concentration electives totaling thirteen credits to be selected on advisement from upper division chemistry and biology courses. The student will satisfy all general education and other requirements of the college.

COURSE DESCRIPTIONS

Symbol: BIO unless otherwise shown
(3-2) represents 3 hours lecture and 2 hours lab.

100 Basic Biological Science (3) Basic principles of biology. Cell theory, energy metabolism, genetics, development, diversity of life forms, and ecology. Not open to biology majors. (2-2).

110 General Biology (4) The concepts general to all living organisms such as the life of cells, genetics, evolution, ecology, and man's role in the living world. (4-2)

115 General Botany (4) Survey of the plant kingdom with stress on distribution, anatomy, physiology, reproduction, and economic importance of the plants from bacteria to and including the angiosperms. (3-3) PREREQ: BIO 110.

117 General Zoology (4) Principles of animal biology. Form and function of vertebrate and invertebrate animal types. (3-3) PREREQ: BIO 110.

150 Contemporary Issues in Biology Teaching (1) Secondary science curriculum, professional organizations, academic preparation of science teachers. (1-1)

200 Basic Genetics (3) A course for non-major students. Mendelian laws of inheritance, probability, organic evolution, and social implications of population control, genetic engineering, etc. Not open to majors in elementary education or to students with credit for BIO 100 or its equivalent. (2-2).

201 Basic Ecology (3) A course for non-major students. Field, forest, freshwater, and marine environments studied through field experiences. (2-2)

203 Current Issues in Ecology (3) A course for non-majors dealing with the underlying ecological bases for current issues taken from the popular media during the semester in question. Offered in spring.

209 Human Anatomy (4) The organ systems of man with emphasis on gross structure. Occasional reference to microscopic structure, development, function, and pathology. Laboratory work deals with the human skeleton and dissection of the preserved cat. (3-2)

214 Introductory Medical Microbiology (4) A fundamental background in principles of microbiology and the nature and epidemiology of microbial diseases. Emphasis on host-parasite interactions. Recent advances in immunology and serology. PREREQ: one semester of college chemistry (3-2)

271 Wildlife Conservation (3) Principles of conservation of plant and animal resources. Collateral reading assignments. PREREQ: BIO 100 or one semester of botany or zoology.

272 Field Ecology and Natural History (3) Class and field work in natural history and ecology for the prospective teacher. Identification of local organisms and pertinent eco-

logical concepts. Not counted toward a biology major. (2-3) PREREQ: permission of department. Offered in fall of odd years.

275 Field Botany (3) Methods of studying plants in their natural surroundings. Use of keys, botanical manuals, and illustrated floras to identify living specimens. (2-3) PREREQ: BIO 100 or 115. Offered in spring of even years.

277 Field Zoology (3) Animal life in the surrounding localities. Identification, behavior, habitats, feeding, and reproduction. (2-3) PREREQ: BIO 100 or 117. Offered in fall of even years.

307 Pathophysiology (3) An integrated study of the processes involved in the total body systemic complex as it changes from the ordered homeostatic condition to the imbalanced diseased state. The use of disease models, with clinical considerations, strengthens the concepts. (4) PREREQ: BIO 209, 309. Offered in fall.

309 Human Physiology (4) Basic human functions with emphasis on the circulatory, respiratory, and nervous systems. (3-2)

330 Genetics (4) Nature of genetic material; its qualitative and quantitative variation; recombination; interaction of gene products; regulation of genetic material; its role in evolution. (3-2) PREREQ: BIO 100 or 110.

348 Animal Development (4) Introduction to principles of animal development; laboratory study of vertebrate embryos. (2-3) PREREQ: BIO 110, 330. Offered in spring.

357 Comparative Vertebrate Anatomy (3) Comparative study of the principal organ systems of selected vertebrates as to their structure and evolutionary relationships. (2-3) PREREQ: BIO 117. Offered in spring.

361 General Physiology (4) General principles of physiology. Concept of homeostasis; nature of protoplasm; acid-base balance; bioenergetics; electrophysiology; enzyme activity. (3-3) PREREQ: CHE 230 or 231, BIO 117, MAT 105 or equivalent.

365 Plant Physiology (3) Physiological processes of plants. Photosynthesis, respiration, intermediate metabolism, entrance of solutes into the plant, water metabolism, and growth regulators. (2-3) PREREQ: BIO 115, CHE 230 or 231. Offered in fall.

370 Ecology (4) Relationship between living things and their environment approached through the study of individual ecosystems. The aquatic, forest, field, and urban ecosystems. (3-3) PREREQ: 8 hours of biology or permission of instructor.

371 Fundamentals of Soil Ecology (3) A field oriented course in the nature and properties of soils, their biology, classification and conservation. (2-3) PREREQ: BIO 115, 117. Offered in fall of odd years.

372 Freshwater Flora and Fauna (3) A laboratory and field oriented course in the identification and ecology of freshwater algae and invertebrates. (1-4) PREREQ: BIO 115, 117. Offered in fall of odd years.

377 Entomology (3) Insects: their structure, functions, classifications, economic importance, and biological significance. (2-3) PREREQ: BIO 100 or 117. Offered every other year.

378 Ornithology (3) Introduction to the birds of Pennsylvania with emphasis on field identification. Classification, migration, songs, courtships, nesting, care of young, and plumage changes. (2-3) PREREQ: BIO 100 or one semester of zoology. Offered in spring.

409 Internship in Biological Sciences (8-16) A full-time or half-time, one semester work study appointment with a commercial, industrial or governmental agency. Student will be supervised jointly by the professional scientist of the agency and a faculty member of the Biology Department. PREREQ: Senior standing and approval of the department.

414 Biological History (3) The story of the development of the biological sciences. PREREQ: BIO 115, 117.

428 Vertebrate Histology (3) A study of the microscopic structure of vertebrate tissues together with considerations of their functions, their associations with each other, and their evolutionary developments. PREREQ: BIO 117 or consent of the instructor.

430-439 Course Topics in Biology (1-3) Courses in this series are of timely interest to the student. Topics may include: biological terminology, laboratory techniques, mycology, etc. Open only to junior and senior science majors.

452 Parasitology (3) Biology of the principal types of animal parasites. PREREQ: BIO 117. Offered in spring.

454 Mycology (3) An introductory course including a general study of the biology of fungi and a survey of the field of medical mycology. (3). PREREQ: BIO 110 plus 4 hrs. of biology. Offered in fall every other year.

459 Regional Human Anatomy (3) A regional approach to the study of human anatomy: head and neck, thoracic cavity and thoracic wall, abdominopelvic cavity and abdominal wall, upper and lower extremities. (2-2) PREREQ: college biology.

467 General Endocrinology (3) Anatomy and physiology of the ductless glands; role of hormones in regulating and coordinating body processes. PREREQ: college biology and organic chemistry.

471 Ecological Systems and Applications (3) Environmental profiles of lake, marine, and estuarine ecosystems. Applications of ecological principles to solution of environmental problems. (2-3) PREREQ: BIO 370, 372. Offered in fall of even years.

483 Ecological Techniques (3) Field and laboratory techniques in collection and treatment of environmental data. (2-3) PREREQ: MAT 121L. Offered in spring of even years.

484 Epidemiology (3) A general study of the epidemiology of both infectious and non-infectious diseases, including industrial and environmentally related health problems. Methods of interviewing and data collecting are also included. (3) PREREQ: BIO 214. Offered in fall every other year.

485 Plant Taxonomy (3) Principles of evolution as illustrated by the principles of plant taxonomy. Modern concepts of biosystematics. Practical experience in plant identification. (2-3) PREREQ: BIO 115.

487 Animal Taxonomy (3) Procedures and principles governing the classification of animals with emphasis on morphological, physiological, ecological, and ethological characters. PREREQ: college biology.

490 Biology Seminar (1) Reports on special topics and current developments in the biological sciences. PREREQ: 18 hours of biology and permission of department.

491 Special Problems in Biology (1 to 3) Tutorial course primarily for advanced undergraduate biology majors capable of independent study and research on a problem approved by the supervising instructor. PREREQ: consent of instructor.

SCE 350 Science Education in the Secondary School (3) A methods course emphasizing knowledge of curricular development and skill in planning, involving the design and execution of learning activities for all instructional modes. (2-2) PREREQ: BIO 150 for biology majors.

For courses in Marine Science, given in summer only, see Earth Sciences.

Business and Economics

Eugene C. Hassler
Chairperson
Philip DeMoss
Assistant Chairperson

PROFESSORS: Green, Schooler, Sylvester, Thorson
ASSOCIATE PROFESSORS: Ballas, DeMoss, Hassler, A. Naggar
ASSISTANT PROFESSORS: Chu, Galbraith, Morgan, T. Naggar, Ritsonis, Smith

The primary objective of the Department of Business and Economics is to provide a learning system that will permit each student in the department to achieve his or her maximum potential intellectual development in his or her chosen area of study and to prepare himself or herself for a satisfying career in that field.

As an aid to the achievement of this purpose, the Department of Business and Economics strives:

(1) To assist students acquire a fundamental knowledge and understanding of the framework within which our business and industrial system operates;
(2) To acquaint students with the modern techniques used by business and industry to enable them to deal effectively with the changing environment;
(3) To encourage students to develop the ability to analyze situations, to relate and classify pertinent factors, and to derive alternatives for solving problems.

BUSINESS CONCENTRATIONS:

Accounting Management
Economics Marketing

1. General Requirements 44 s.h.
   See page 70
2. Social and Behavioral Science Core 6 s.h.
   Two courses in the School of Social and Behavioral Sciences in disciplines not chosen under general requirements.
3. Business and Economics Core 36 s.h.
   BAD 101*, ECO 131*-2*, BAC 201*-2*, BAD 201*, BMK 221*, ECO 351, BFN 325, BLA 301, Economics course of the 300 level excluding ECO 352, and a quantitative business or economics course excluding ECO 351.
   *—A minimum grade of C must be attained in each of these courses.
4. Other courses required by the Business and Economics Department CSC 102, MAT 107 and SPH 101 or 230. These courses satisfy and are included under the general requirements.
   MAT 108 3 s.h.
5. Area of Concentration 27 s.h.

Accounting	Economics	Management	Marketing
BAC 301-2	ECO 334	BAD 302	BLA 302
BAC 303-4	ECO 338	BAD 323	BMK 322
BAC 401	ECO 340	BAD 401	BMK 327

(continued on following page)

(continued)

Accounting	Economics	Management	Marketing
BAC 403	ECO 343	BAD 402	BMK 328
BAC 405	ECO 348	BAD 405	BMK 400
Bus. Elec.	Bus. Elec.	BAD 408	BMK 403
Bus. Elec.	Bus. Elec.	BLA 302	BMK 404
	Bus. Elec.	ECO 334	BMK 408
	Bus. Elec.	Bus. Elec.	ECO 334

6. Free Electives — 12 s.h.
   An additional social science course in a discipline not chosen under general requirements and social and behavioral science core is recommended.

BACHELOR OF ARTS—ECONOMICS

1. General Requirements — 44 s.h.
   See page 70
2. Foreign Language Requirement — 6 s.h.
3. Social Science Core — 21 s.h.
4. Economics Concentration Requirement — 36 s.h.
   ECO 231-2, ECO 340, MAT 107-8, ECO 335, ECO 351-2
   Additional Departmental Courses
5. Electives (6 s.h. of electives may be economics courses) — 31 s.h.

COURSE DESCRIPTIONS

ACCOUNTING

Symbol: BAC

The objective of the accounting concentration is to prepare students for accounting careers in business, for the CPA examination, and for the private practice of accounting.

201 Principles of Accounting I (3) Introduction to financial accounting. A conceptual approach to recording, summarizing, presentation and valuation of the financial affairs of a business firm. PREREQ: BAD 101.

202 Principles of Accounting II (3) Introduction to management accounting. Accumulating, processing and interpretation of financial data as an input for managerial decisions of a business firm. PREREQ. BAC 201.

301 Intermediate Accounting I (3) Analysis and evaluation of assets, liability, and capital account. Problems of income measurement and recognition. PREREQ: BAC 202.

302 Intermediate Accounting II (3) Continuation of BAC 301. PREREQ: BAC 301.

303 Cost Accounting I (3) Techniques of product unit cost determination and uses of cost data in managerial decisions. PREREQ: BAC 202.

304 Cost Accounting II (3) Continuation of BAC 303. PREREQ: BAC 303.

401 Auditing (3) Introduction to auditing as a tool for verification of the fair presentation of financial statements. PREREQ: BAC 302.

403 Federal Taxation (3) A study of individual and federal income taxes, with some business application. Emphasis on tax planning for minimization of tax liability. PREREQ: BAC 202.

405 Advanced Accounting (3) In depth study of business combinations and consolidations, government accounting and other specialized topics. PREREQ: BAC 302.

410 Independent Studes in Accounting (1 to 3) Special research projects, reports, readings in accounting. Open to seniors only. PREREQ: instructor's approval.

ECONOMICS

Symbol: ECO

The objective of the economics concentration is to develop an understanding of economic theory rather than career preparation (other than teaching economics, or as a professional economist in government, business or private consultation). Economics has many useful career applications. The department coordinates its economics courses with the Department of History (such as HIS 354, 356, 358, 333, and 360 and the Department of Geography such as GEO 210, 212, 214, and 220) which courses may be considered economics courses under advisement.

101 Principles of Economics—Survey (3) Basic principles underlying production and consumption activities in our modified capitalistic economic system, from the aggregate as well as individual and sectoral standpoints. Issues include competition, unemployment, inflation, economic growth, and alternative economic systems.

131 Principles of Economics I (Micro) (3) Principles underlying use and allocation of scarce productive resources. Consumption and production activities. Value, price, and income distribution. Considerations of economic efficiency and welfare.

132 Principles of Economics II (Macro) (3) National income and its measurement. The determination of price levels, output, and employment. Money and credit, expenditures, and economic stability. Government fiscal and monetary policy.

333 Consumer Economics (3) Major kinds of economic decisions required of consumers; an evaluation of the social and economic consequences of those decisions.

334 Labor Economics (3) Objectives sought and policies followed by labor and management in modern industrial relations in the United States Collective bargaining processes and the role of government. PREREQ: ECO 132.

335 Money and Banking (3) A survey of money, credit, and prices, emphasizing their effects on economic stability. The Federal Reserve System and its effect on credit control. PREREQ: ECO 132.

336 Regulation of Competition (3) Background and development of public policies which directly modify the free enterprise economy of the United States. Evaluation of policies which change the nature and extent of competition. PREREQ: ECO 131.

337 Economic Growth and Development (3) A survey and critical evaluation of alternative theories of capitalist economic development. Analysis and comparison of alternative public policies applicable to underdeveloped countries and regions. PREREQ: Junior standing.

338 International Economics (3) A descriptive, analytical examination of international trade, financial, and other economic relationships. The effects of public policies on these relationships. PREREQ: ECO 131 and 132.

340 Intermediate Microeconomics (3) A continuation and extension of the price-system analysis in ECO 131. Emphasis on the need for efficiency in the economy's use of scarce productive resources. PREREQ: ECO 131.

341 Public Finance (3) Government's influence on stability of national income. Nature of taxes and expenditures at the various levels of government and their effect on the allocation of resources and the distribution of income. PREREQ: ECO 132.

343 Comparative Economic Systems (3) Basic ideas and economic institutions of socialism, communism, and capitalism in the twentieth century; problems created by the emergence of competing systems. PREREQ: ECO 131 and 132.

345 History of Economic Thought (3) Origins of economic thought and comparison of the major schools of economic doctrine. Current economic and socio-political factors. PREREQ: ECO 131 and 132.

346 Economy of Soviet Russia; Organization and Growth (3) Russian economic growth prior to 1917; economic change and growth under the Soviet system. Workers' control, planning, pricing, resource allocation, and controls. An assessment of the economy's achievements, shortcomings, and prospects. PREREQ: Junior standing.

347 Managerial Economics (3) A course which seeks to develop managerial judgment. The premise is that technical application, to be successful, must proceed from economic feasibility. One plan is weighed against another in terms of comparative costs and revenues, return on investment, plant-replacement problems, obsolescence, and depreciation. PREREQ: ECO 131 and 132.

348 Intermediate Macroeconomics (3) Introduction to the theory of income, employment, and growth. Provides the tools of analysis necessary for dealing with aggregate economic problems. PREREQ: ECO 132.

349 Economics of Poverty (3) Incidence, causes, and consequences of poverty in the United States. Economic theory, history, and statistics applied to analysis of poverty-reduction measures. PREREQ: Junior standing.

350 Urban Economics (3) Economic aspects of such urban problems as poverty, housing, taxation, income distribution, and discrimination. Analysis of economic aspects of various proposed remedies, including urban renewal, family allowances, cooperatives, and others. PREREQ: Junior standing.

351 Quantitative Business Analysis I (3) Considers the fundamental ideas of statistical theory that are appropriate for solving problems in the fields of business and economics. Topics include: descriptive statistics, probability theory, sampling and estimation, hypothesis testing. PREREQ: MAT 108.

352 Quantitative Business Analysis II (3) Continuation of ECO 351. Topics include hypothesis testing, simple multiple regression analysis, and Bayesian inference. PREREQ: ECO 351.

354 Sampling Theory (3) Study of process of sample surveying, designing experiments in stratefied, cluster, ratio, and multi-state sampling. PREREQ: ECO 351.

400 Senior Seminar in Economics (3) Research in economics. Emphasis on methodology, bibliography, and oral and written presentation. Research paper must meet departmental requirements. PREREQ: ECO 340.

401 Introduction to Econometrics (3) Statistical and mathematical techniques applied to economic situations. Use of empirical data in economic analysis. PREREQ: ECO 352, ECO 131 and 132.

410 Independent Studies in Economics (1 to 3) Special research projects, reports, readings in economics. Open to seniors only. PREREQ: instructor's approval.

FINANCE

Symbol: BFN

325 Corporation Finance (3) The organization and financing of the modern corporation. Promotion, capitalization, short-term financing, capital budgeting, distribution of earnings, expansion, consolidation, failure, and reorganization. PREREQ: ECO 131, BAC 202.

344 Investments (3) Problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as the corporation. PREREQ: BFN 325.

370 Problems in Financial Management (3) Case problems in corporate financial management. Includes cases on management of current assets, obtaining short term loans, raising long term capital, capital budgeting, and dividend policy. PREREQ: BFN 325.

LAW

Symbol: BLA

The objective of teaching law in the Department is to give every business student a basic knowledge of the American legal system, and such additional specialized legal knowledge as needed in a planned business career.

301 American Legal System (3) The nature of law, the judicial system, civil procedure, crimes, torts, contracts, and agency, from a business viewpoint.

302 Special Subjects in Business Law (3) A survey of legal subjects of practical utility in business: partnerships, corporations, real and personal property, sales, negotiable instruments, etc.

303 Legal Problems in Business (3) Special legal problems in business will be considered at length, such as consumer credit regulation, insurance, personal law relating to decedent's estates and social security, preparation for the CPA examination, etc. This course may be taken more than once (but not more than three times) for credit if the subject matter of the course is not duplicated.

MANAGEMENT

Symbol: BAD

The objective of the management concentration is not to prepare students for a particular occupational specialty, such as accounting, or law. Graduates in management cannot expect to be employed as "managers." The management concentration seeks to make students knowledgeable about the practice and theory of management. Such a knowledge will enhance effective performance in any career, and will enable one to be an effective manager in an organization. Since there is no one accepted school of management theory, the concentration relates various schools of management thought so that the graduate can effectively apply management theory to business problem solving. Both the qualitative and the behavioral aspects of management science are taught.

101 Introduction to Business (3) A descriptive survey of the role and function of American business, the elements of business operations and the tasks and structures of business organizations, also of the purpose and impact of government regulations and the social responsibility of business. Intended to enable business students to gain orientation for their business studies and for non-business students who want to understand the American business system.

201 Business Organization and Management (3) Study of the history, theory, principles and functions of the business organization and its effective management. Decisions and problems attending the principle management functions: planning, organizing, staffing, directing and controlling. PREREQ: BAD 101.

302 Personnel Administration (3) The personnel system in an organization: policy, employment, training, job evaluation, wage and salary administration, benefits, performance standards and evaluation, etc. Personnel responsibility of line managers. PREREQ: BAD 201 or consent of instructor.

323 Planning and Control (3) A study of the budgeting process of planning and controlling. Includes forecasting and the means of measurement of the flow of expenses for the purpose of establishing sound conditions of operation and profitability. PREREQ: ECO 352, BAD 201.

324 Quality Control (3) Control techniques in industrial production, inspection, and experimentation. Intensive study of the SHEWHART control charts and acceptance sampling by attributes and variables. PREREQ: MAT 108, BAD 201.

400 Senior Seminar in Management (3) Research in management. Emphasis on integrating and reinforcing principles studied in earlier courses. Research papers must meet departmental requirements. PREREQ: BAD 401.

401 Production Management and Operations (3) Principles and theory involved in operating a modern plant; problems of organization, location, layout, equipment, standards, and control of operations. PREREQ: BAD 302.

402 Organization Theory and Behavior (3) Study of organizations in terms of goals, structure, behavior and environment. The organization is viewed as a dynamic process in interaction with its environment to accomplish its goals. PREREQ: BAD 201.

405 Business Policy (3) Case study of policy making and administration from a general management point of view. Emphasis is on problem analysis, the decision making process,

administration and control, and continuous reappraisal of policies and objectives. PREREQ: BAD 402.

406 Introduction to Operations Research (3) A quantitative and qualitative presentation of problem solving with model building. Examples from economics, business and the behavioral sciences are used to guide students through formulation of problems to implementing solutions. PREREQ: ECO 352.

407 Budgeting and Systems (3) Budgeting and systems as aids in coordinating and directing business operation. PREREQ: BAC 202, ECO 132

408 Contemporary Problems in Business (3) An independent analysis and discussion of ethical problems usually confronted in business, such as obedience to illegal or immoral orders of superiors; exorbitant or excessive pricing; deceptive trade practices; bribery or undue influence on government officials; harassment of business critics or competitors; knowing underpayment of taxes; favoritism of customers; abuse of expense accounts; fidelity to company and stockholders; kickbacks and accepting gifts from suppliers; industrial espionage, bugging, etc.; and dishonest or misleading financial reporting. The work of business critics such as Ralph Nader will be treated. Open to non-majors.

410 Independent Studies in Management (1 to 3) Special research projects, reports, readings in management. Open to seniors only. PREREQ: instructor's approval.

MARKETING

Symbol: BMK

The objective of the marketing concentration is to prepare students to assume positions primarily in the areas of marketing research, product development, advertising, sales, physical distribution, and pricing in both the private and public sectors.

221 Principles of Marketing (3) The consumer market, product planning, merchandising and distribution, pricing, and market research. PREREQ: ECO 131, BAD 101

320 Managing Sales (3) Source, technique, and theories applied to problems encountered in managing a sales force in the areas of administration, policy, organizational structure, personnel selection and evaluation, sales training, compensation, forecasting, establishing territories and quota, and sales analysis. Emphasis on case studies. PREREQ: BMK 221.

321 Salesmanship (3) Analysis of the selling process applied to sales calls and sales strategies, communication, persuasion, motivation, ethics, interpersonal relationships, negotiations and professionalism. Emphasis on case studies. PREREQ: BMK 221.

322 Advertising and Sales Promotion (3) Roles of advertising and promotion in wholesale and retail marketing. Current campaigns are studied. PREREQ: BMK 221.

327 Marketing Management (3) Study of policy decision-making. Organization and analysis of marketing opportunities; policy decisions regarding product, price, marketing channels, physical distribution, advertising, and sales; marketing models and systems. PREREQ: BMK 221.

328 Marketing Channels (3) Distribution strategy; efficient planning of space, time, and distribution costs to meet consumer demand; alternatives in channel structure, policies, management, and leadership; methods for improving channel performance; channel strategy in the future. PREREQ: BMK 221.

400 Senior Seminar in Marketing (3) Research in marketing. Emphasis on integrating and reinforcing principles studied in earlier courses. Research paper must meet departmental requirements. PREREQ: Senior standing or instructor's permission.

403 Consumer Behavior (3) Foundations of consumer behavior. Market structure and consumer behavior; purchase strategy and tactics; determinants and patterns of consumer behavior. An integrated theory of consumer behavior is sought. PREREQ: BMK 221.

404 International Marketing (3) Historical and theoretical background of foreign trade; world marketing environment; world market patterns; marketing organization in its international setting; international marketing management. PREREQ: BMK 221.

408 Marketing Research (3) Systematic definition of marketing problems; strategies for data collection; model building; interpretation of results to improve marketing decision-making and control. PREREQ: BMK 221, ECO 351 and 352.

410 Independent Studies in Marketing (1 to 3) Special research projects, reports, readings in marketing. Open to seniors only. PREREQ: instructor's approval.

Chemistry (See also Pre-Professional Program)

Robert F. Foery
Chairperson

PROFESSORS: Bravo, Durand, Foery, Medieros, Reynolds, Rudnick, Torop
ASSOCIATE PROFESSORS: Mangravite, Williams, Witonsky
ASSISTANT PROFESSORS: A'Zary, Goudy, Eichelberger, Magnuson

The Department of Chemistry offers five undergraduate degree programs:

(1) The B.S. Chemistry program enables students to receive basic preparation required for the careers of their choice. Such choices include college and university teaching, positions as professional chemists, research work, and various services in industry and government. In all cases, the program prepares students for graduate study in the field of chemistry.
(2) The B.S. in Chemistry-Biology is an innovative cross-disciplinary program operated with the cooperation of the Department of Biology. In addition to providing the core courses required for admission to schools of medicine, dentistry and veterinary medicine, the program also enables the student to pursue a career in marine biology, oceanography, biochemistry, and environmental chemistry.
(3) The B.S. in Clinical Chemistry is a program which trains students for careers in hospital or private clinical chemistry laboratories. A one semester internship in a hospital clinical chemistry laboratory is a mandatory part of this program. Students completing the program are eligible for certification as clinical chemistry technologists by the National Registry in Clinical Chemistry.
(4) The B.S. in Forensic Chemistry is a new program which will train students interested in working in criminalistics and toxicology laboratories. The program prepares students for graduate study and specialization in these fields. A one-semester internship in a police or toxicology forensic-chemistry laboratory is a mandatory part of this program.
(5) The B.S. in Education in chemistry program prepares the student for a career in teaching chemistry in the secondary schools. The program enables the student to gain experience in the major branches of chemistry so that, with proper selection of electives, graduate work in either pure chemistry or chemical education can be pursued. Sufficient flexibility is provided so that the student may also become certified in general science.

The Department of Chemistry is accredited by the American Chemical Society, which provides its professional certification to graduates of the B.S. in Chemistry program.

Internship Program

Although internships are not a mandatory part of all chemistry programs, they are available to majors on a selective basis. Students receive varying amounts of credit based upon the number of hours spent in a work situation and upon the na-

ture of the academic work necessary during the internship. Credit varies from three to fifteen semester hours; each eight hour workday per week is equivalent to three semester hours.

CHEMISTRY CORE COMMON TO ALL CHEMISTRY PROGRAMS

General Chemistry I-II (CHE 103-104)
Experimental General Chemistry I-II (CHL 103-104)
Calculus I-II MAT 161-162
Physics I-II (PHY 101-102)

BACHELOR OF SCIENCE—CHEMISTRY

Along with meeting the general requirements and the chemistry core, the student pursuing the Bachelor of Science in Chemistry must take the courses below:

Chemistry Concentration Requirements
CHE 231, 232-233, 321, 341, 342, 401, 411, 471, 491
CHL 237, 238, 321, 341, 342, 471
In addition 6 credits of Chemistry electives must be taken.
Related Courses
Foreign Language (6 s.h.)
German required unless the 101-2 level has been achieved, when German through the Intermediate II level or French or Russian at the 101-2 level may be substituted.
Introduction to Computer Science
One elective in mathematics or computer science

BACHELOR OF SCIENCE—CHEMISTRY-BIOLOGY*

Concentration Requirements for this program are:
CHE 231, 232, 321, 345, 471, 491
CHL 237, 321, 471
BIO 110, 115, 117, 330, 361
Concentration electives totaling a minimum of 13 credits.
Must be selected on advisement from upper division chemistry or biology courses.
Related Courses
MAT 121, 161, PHY 103-104

*See also Pre-professional Chemistry-Biology Curriculum, page 210.

BACHELOR OF SCIENCE—FORENSIC CHEMISTRY

In addition to the general requirements and the chemistry core requirements, a student pursuing the Bachelor of Science in Forensic Chemistry must take the following courses:
CHE 231, 232, 321, 345, 371, 471, 479
CHL 237, 321, 345, 371, 471
CHE 421 or BIO 364
Related Courses:
BIO 110, 309
MAT 121, CSC 101

BACHELOR OF SCIENCE IN EDUCATION—CHEMISTRY

In addition to meeting the general requirements, the chemistry core shown above, and the professional education requirements shown on page 215, the major in this program takes the following:
CHE 231, 232, 321, 341 or 345, 401, 411 or 471, 491
CHL 237, 321, 341
CSC 101, and PSY 100
Eight credits of science electives are required.

BACHELOR OF SCIENCE IN CLINICAL CHEMISTRY

In addition to the general education and chemistry core requirements, a student pursuing the Bachelor of Science in Clinical Chemistry must take the following courses:
CHE: 231, 232, 321, 341 or 345, 381, 401, 471, 481, 482, 495
CHL: 237, 321, 341 or 345, 381, 471
BIO: 110, 209, 361
MAT: 121; CSC 101

COURSE DESCRIPTIONS

Symbol: CHE
Symbol for Chemistry Labs: CHL

100 Chemistry and Man (4) Fundamentals of inorganic, organic, and biological chemistry as applied to the contemporary problems of mankind. A terminal course for non-science majors.

CHL 100 Basic Experimental Chemistry (0) Selected laboratory exercises illustrating fundamentals of inorganic, organic, and biological chemistry. For non-majors.

101 Chemistry for Nurses (4) Topics in inorganic, organic, and biological chemistry of medical and physiological significance. Standard laboratory experiments and clinical techniques. (3 hours lecture; 2 hours lab). For diploma nurses only.

103-104 General Chemistry I-II (3) (3) Basic laws and theories of chemistry including atomic structure, chemical bonding, oxidation-reduction, solutions, and ionic equilibria. Correlations of chemical principles and their application to modern descriptive chemistry. CHE 103 must precede CHE 104. Labs: CHL 103-104.

CHL 103-104 Experimental General Chemistry I-II (2) (2) Basic laboratory studies in college chemistry utilizing the quantitative approach. Semi-micro qualitative analysis and inorganic preparations. CONCURRENT OR PREREQ: CHE 103-104 or 106-107. CHL 103 must precede CHL 104. (1 hour recitation precedes 3 hours lab.)

111 Chemistry—"What People Eat" (3) A one semester course using analysis of the student's actual diet as a point of departure for the study of general chemistry for students with little or no background in science. A TERMINAL COURSE FOR NON-SCIENCE MAJORS ONLY.

230 Introduction to Organic and Biological Chemistry (3) A terminal course in fundamentals of organic chemistry. Structural theory or organic molecules; organic synthesis; and biological applications. Lab CHL 230. PREREQ: CHL 104.

CHL 230 Basic Experimental Organic and Biological Chemistry (2) Fundamental laboratory techniques of organic chemistry and their application to organic synthesis. CONCURRENT OR PREREQ: CHE 230.

231-232-233 Organic Chemistry I-II-III (4)(3)(3) A comprehensive study of the structure and reactions of organic molecules. 231 must precede 232 which must precede 233. Lab: CHL 237-238. PREREQ: CHE 104.

237-238 Experimental Organic Chemistry I-II (2) (2) Basic laboratory skills in organic chemistry including classical as well as instrumental techniques. Organic synthesis and modern spectrophotometric methods of identification. CONCURRENT OR PREREQ: CHE 232-233. CHL 237 must precede CHL 238.

300 Fundamentals of Radioisotope Techniques (3) (Also PHY 300). Biological, chemical, environmental and physical effects of nuclear radiation. Radiation detection instrumentation and radio tracer methodology. (2-2) PREREQ: CHE 104 and PHY 102 or 104.

313 Geochemistry (3) (Also ESS 311) The chemistry of the earth and its relation to geologic processes. (2 hours lecture; 2 hours lab) PREREQ: CHE 104, ESS 201.

321 Analytical Chemistry I (2) Fundamental principles of analytical chemistry. Theory of gravimetric and volumetric methods of analysis. Lab: CHL 321, PREREQ: CHE 104.

CHL 321 Analytical Chemistry I Laboratory (3) Practical experience in modern techniques of chemical analysis with emphasis on volumetric and gravimetric methods. CONCURRENT OR PREREQ: CHE 321.

341-342-343 Physical Chemistry I-II-III (3) (3) (3) The mathematical laws and theories of chemistry including thermodynamics, reaction kinetics, quantum and statistical mechanics, theory of chemical bonding and molecular structure. Lab: CHL 341-342. PREREQ: CHL 104, PHY 102, MAT 142 or MAT 162.

CHL 341-342 Experimental Physical Chemistry I-II (2) (2) Laboratory exercises illustrating principles of thermodynamics, kinetics, and quantum mechanics. CONCURRENT OR PREREQ: CHE 341-342.

345 Fundamentals of Physical Chemistry (3) A survey of the fundamental topics in physical chemistry with applications to biology and medicine. Primarily for biology, chemistry-biology and pre-professional majors. Lab: CHL 345. PREREQ: CHE 232, MAT 141 or MAT 161, PHY 102 or PHY 104.

CHL 345 Basic Experimental Physical Chemistry (2) Experiments illustrating the laws of physical chemistry. Primary for biology, chemistry-biology, and pre-professional majors. CONCURRENT OR PREREQ: CHE 345.

371 Forensic Chemistry (3) Introduction to criminalistics (chemical forensic analytical techniques) with the role, functions, operations and organization of a scientific police laboratory.

CHL 371 Forensic Chemistry Lab (2) Identification and comparison of trace evidence utilizing modern instruments and classical wet methods of chemical analysis.

381 Clinical Chemistry (3) Analysis of biological fluids. Clinical significance of enzyme, electrolyte, protein, and carbohydrate analysis. Requires permission of instructor or preparation in organic chemistry and quantitative analysis. PREREQ or CONCURRENT: CHE 471, CONCURRENT: CHL 381.

CHL 381 Clinical Chemistry Laboratory (2) Lab for 381. Practical experience in analysis of biological fluids for diagnostic parameters. Nature of biological sampling, sample preservation, methodology, statistics, quality control. PREREQ or CONCURRENT: CHE 381, CHE 471, CHL 471.

401 History and Literature of Chemistry (2) Historical background of chemistry, survey of literature of chemistry; instruction in the use of modern chemical library. PREREQ: CHE 231.

403 Chemistry of the Environment (3) The chemistry of the atmosphere, hydrosphere, and biosphere; man's impact upon these areas. PREREQ: CHE 104.May also be offered with lab (2-2).

404 Foundations of Nutrition (3) Proteins, lipids, fats, vitamins, and minerals and their role in normal metabolism; nutrition and disease; metabolism and biochemical individuality; cultural and political aspects of nutrition. PREREQ: CHE 104 or permission of instructor.

CHE 406 Chemistry Internship (3-15) A full or part-time work study appointment in a governmental or industrial chemistry laboratory supervised jointly by an on-site evaluator and a chemistry department faculty member. PREREQ: Permission of department internship committee.

408 Industrial Pollution (3) Applications of elementary chemical engineering to the industrial complexities of the environmental processes. Emphasis on unit operations and unit processes applicable to pollution control and abatement. PREREQ: CHE 104.

410 Independent Studies in Chemistry (1-6)

411 Advanced Inorganic Chemistry (3) The application of modern chemical theories to inorganic substances and reactions: the chemistry of the short and long transition elements. PREREQ: CHE 104.

421 Selected Topics in Chemistry (2-4)

424 Analytical Chemistry II (2) Basic principles of applied instrumental analysis. Special

emphasis on the use of spectrophotometric and electroanalytical instrumentation. Lab: CHL 424, PREREQ: CHL 321.

CHL 424 Analytical Chemistry II Laboratory (2) Practical experience in the choice and application of instrumental methods of analysis to chemical systems. CONCURRENT OR PREREQ: CHE 424.

435 Qualitative Organic Analysis (4) A laboratory course in classical and instrumental methods for identification of organic compounds. PREREQ: CHE 232, 321. (2 hours lecture; 6 hours lab.)

436 Polymer Chemistry (3) Polymerization kinetics, rheology of polymer melts, crystallization paramenters, and monomer reactivity in copolymerization. PREREQ: CHE 232.

471 Fundamentals of Biochemistry (3) Structure and chemistry of proteins and nucleic acids; molecular biology, physio-chemical methods for biomacromolecules, enzymes, and the molecular basis for some physiological phenomena. Lab: CHL 471. PREREQ: CHE 345 or equivalent.

CHL 471 Experimental Biochemistry (2) Laboratory exercises in the fundamentals of biochemistry. CONCURRENT OR PREREQ: CHE 471.

480 Introduction to Chemical Research (3) Information retrieval and chemical research under direct supervision of a staff member. Must be taken for at least two semesters for a total of six credits. PREREQ: Senior standing and permission of department chairperson.

481-482 Clinical Chemistry Seminar I-II (1) (1) Weekly lectures covering current aspects of laboratory procedures or interpretation of data in the clinical chemistry laboratory. Presentations may be by students and/or invited lecturers; may be given off-campus.

491 Seminar in Chemistry (2) Oral presentation of papers based upon laboratory or library research. PREREQ: permission of department chairperson.

495 Clinical Chemistry Internship (3-15) A full-time, one semester work study appointment at a hospital, commercial, or industrial clinical chemistry laboratory supervised jointly by a practicing clinical chemist and a participating Chemistry Department faculty member.

SCI 370 Science and Human Values (3). A one semester course illustrating the impact of science on human thought, values, and institutions. Ethical, sociological, and psychological, aspects of science-mediated change are covered in depth.

Comprehensive Social Studies

BACHELOR OF SCIENCE IN EDUCATION

Students wishing to teach secondary school social studies should pursue a Comprehensive Social Studies major. The Commonwealth of Pennsylvania grants a comprehensive social studies certificate entitling the holder to teach any of the social studies. Therefore, this program combines an introduction to all of the social science disciplines with a concentration in one of them. Also, an interdisciplinary concentration is available as an option. Students may choose from a wide variety of concentrations according to their interests and career goals. For information, contact the chairpersons of the departments participating in this program (Anthropology, Sociology and Social Welfare; Geography and Planning; Government and Politics; History; Psychology; and Sociology.)

COMMON REQUIREMENTS

General Requirements	See Page 70
Professional Education	See Page 215
Social Science Core	See Page 72

Students in the Comprehensive Social Studies major must take six hours in each of the social sciences. Thirty of these forty-two semester hours may be fulfilled under general education requirements and social science core; the balance may be completed under 33 semester hours of specialized preparation of each concentration described below. A 2.5 cumulative average in the social sciences and a 2.25 overall average is a prerequisite for student teaching.

A. Comprehensive Social Studies: (discipline concentration)

The concentration is in the discipline of student's choice, providing that the academic department is participating in the B.S. concentration. At this time, students may choose from the following disciplines: Anthropology, Geography, Government and Politics, History, Psychology or Sociology. A total of eighteen hours under advisement in one discipline, excluding seminar but including credits in general requirements and social science core, fulfills the concentration. See department of concentration for advisement.

Seminar	3 s.h.
Courses in Discipline	15 s.h.
Social Science Requirements	9 s.h.
Cognates	6 s.h.

B. Comprehensive Social Studies: American Cultures. See History Department for advisement.

American Studies Core	24 s.h.
American Studies Electives and Social Science Requirements	9 s.h.

C. Comprehensive Social Studies: World Cultures. Consult with any of the following departments for advisement: Anthropology/Sociology, Geography and Planning, Government and Politics or History.

Seminar	3 s.h.
European Tradition	9 s.h.
Non-European Tradition	9 s.h.
Topical and Thematic Approaches	9 s.h.
Social Science Requirement or Cognate	3 s.h.

D. Comprehensive Social Studies: Ethnic Studies. Advisement by History Department.

History Courses	15 s.h.
Social Science Electives and Requirements	9 s.h.
Humanities Electives	6 s.h.
Teaching in Urban Schools (EDU 361)	3 s.h.

E. Comprehensive Social Studies: Human Heritages

This involves geographic distribution along with a concentration in a discipline, as in A. Advisement by department of concentration

Seminar	3 s.h.
European Tradition	6 s.h.
Non-European Tradition	6 s.h.
American Tradition	6 s.h.
Thematic, topical courses	6 s.h.
Social Science Requirements and Cognates	6 s.h.

Computer Science—See Mathematical Sciences
Counselor Education—See Graduate Catalog
Educational Research—See Graduate Catalog

Criminal Justice

Janet C. Seidel
Chairperson

PROFESSOR: Francella
ASSOCIATE PROFESSORS: Metz, Seidel
ASSISTANT PROFESSORS: Anderson, Walters

A program leading to the Bachelor of Science degree in criminal justice has been designed to provide for the needs of three categories of students: 1) those who wish to undertake a four-year program of study for careers in criminal justice, 2) in-service personnel who wish to strengthen their educational background and increase their professional competence, and 3) graduates of two year colleges.

The program is intended to provide the competencies, understanding, and philosophy necessary for professional performance in the fields of criminal justice. Although the program is not designed to develop specialists in any one field of criminal justice, it does provide opportunity to concentrate in one of two areas through electives. The final two years of the criminal justice program provide an opportunity for internships in law enforcement agencies, correction institutions, and court administrative units.

Prospective students are cautioned that career opportunities in the criminal justice system are limited at present.

BACHELOR OF SCIENCE—CRIMINAL JUSTICE

*1. General Requirements — 44 s.h.
Health and Speech must be included
See page 70
2. Specialized Preparation — 21 s.h.
CRJ 100, 252, 312, 322, 401, 409, SOC 352
3. Field Placement — 12 s.h.
Must take place in the senior year and in intern situations related to the chosen area of concentration.
4. Topical Areas
*A. Sociology and Psychology of Criminal Behavior (15 s.h.)
Five courses in sociology and psychology, selected under advisement
*B. Approaches to Deviance, Criminal Justice, and Rehabilitation (24 s.h.)
Eight courses chosen under advisement from anthropology, business administration, geography/planning, history, political science, psychology, social welfare, and sociology.

5 Practice Theories 6 s.h.
Choose either Area I or Area II
Area I—Law Enforcement—CRJ 223, 323
Area II—Institution and Community Corrections—
CRJ 428, 430
6. Electives from criminal justice offerings, chosen under advisement 6 s.h.

*When fulfilling these requirements, students must be certain to meet the Social Science Core. See Social Science Core, Page 72.

Enrollment in 300 and 400 level courses restricted to criminal justice majors and to other students approved by the department chairperson.

COURSE DESCRIPTIONS

Symbol: CRJ

100 Foundations of Criminal Justice (3) Introduction to, and analysis of, the agencies and processes within the criminal justice system. This will entail not only an examination of police behavior, but will also pertain to the legislature, courts, police, prosecutor, corrections, and correctional institutions and rehabilitation.

102 Criminal Process (3) Taught from both a prosecutorial and defense orientation; the examination and evaluation of each stage of the criminal process from arrest to adjudication.

122 Introduction to the Basic Principles of Law Enforcement (3) Organization principles, applied to agencies operating within the criminal justice systems. Techniques, problems, methods of solutions, and operation and supervision.

223 Fundamentals of Criminal Investigation I (3) Theory and Techniques of investigation, legal significance of evidence, crime scene searches and records, preservation of evidence, leads, laboratory and technical services, locating and interviewing witnesses, surveillance and intelligence, interrogation, focusing the investigation, report writing, arresting the accused, case preparation.

240 Introduction to Criminal Justice Systems (3) Overview of the criminal justice systems. Focus is on police, probation and parole, courts and corrections.

252 Criminal Justice Organization and Administration (3) Organizational structure and operation of criminal justice agencies with emphasis on the management objectives of police, courts, and corrections.

260 Court Administration (3) An introductory course designed to acquaint students with the problems of management of the courts.

300 Criminalistics (3) To familiarize the student with the recognition of physical evidence, its collection and processing at the criminalistics laboratory.

312 Organized Crime (3) The course will cover the history and growth of organized crime in the United States. It will include current activity and non-fiction accounts by inside participants. Organization and function of law enforcement units designed to counter organized criminality will be discussed.

322 Criminal Justice Agencies and Their Community Responsibilities (3) A course designed to acquaint the student with the nature and sources of law. From there they are presented a brief overview of the criminal justice system and its relationship to society in general and the community in particular. Conflicts between the system and the community are examined with emphasis upon the resolution of those problems where possible. A concluding section speculates on what the future may bring for the criminal justice system.

323 Fundamentals of Criminal Investigation II (3) Criminal Investigations examines the function of police involving crimes of violence, crimes against property and organized crime. Police operational techniques and applicable court decisions, in the areas of interview, search, seizure, and arrest. PREREQ: CRJ 223

368 Security I (3) General definition of the field of Industrial Security with emphasis on loss prevention and protection of assets. Identification of vulnerabilities in business and industry and specific techniques and approaches for resolving or minimizing such vulnerabilities.

369 Security II (3) In-depth examination of the various facets and interests of the private security sector. Review and discussion of security management to include selection of personnel, training, budgeting and costs, public relations, employee relations and the interface with safety and fire protection. PREREQ: CRJ 368.

401 Criminal Law (3) This course will cover the principles of criminal responsibility, the purposes and limitations of criminal law, and the elements of various criminal offenses.

409 Criminal Procedure and Evidence (3) This course is an examination of the theory and application of the law and rules of evidence for the law enforcement person. The course will develop in the law enforcement officer an understanding of the reasons for the rules of evidence and a grasp of the application of the rules in case investigation and for presentation in court so that the rights of those under investigation are preserved. This is done through study of selected cases, statutes and the analysis of hypothetical cases and situations.

411 Federal Law Enforcement (3) The major federal enforcement agencies, their duties, functions, and jurisdiction. Role of Federal Prosecutor, judge, and corrections personnel. Guest lecturers used frequently.

412 State and Local Law Enforcement (3) Structure and organization of state, metropolitan, and suburban police departments from commander to street patrol. Numerous guest lecturers, currently or recently active in these assignments.

428 Corrections (3) The purpose of this course is to provide the student with a survey and analysis of the correctional system and its processes from both a historical and geographical perspective. Emphasis will be placed on relating this survey and analysis to contemporary practice and future trends within the area of corrections.

430 Parole and Probation (3) History of parole and probation practices including the theoretical hypothesis of human behavior on which probation practices are based. Contemporary practices; possible future trends.

442 Interviewing and Counseling (3) The purpose of this course is to provide information and material in in-depth interviewing, counseling, interrogating theory and techniques. In addition to role playing and modeling behavior, the course will include: interviewing, the mechanics of questioning, physical influence factors, ethics, and standards.

450 Major Case Investigations (3) A model major actual case is reconstructed and reenacted, with spectators, participants, victims, witnesses, enforcement agencies, and news media included. Interviews, collection and preservation of evidence, deductions, laboratory examinations, reports, and communications.

460 Legal Aspects of Drug Abuse (3) This course content will include an analysis and definitions of drugs and drug abuse, going into their effects, types, extent of abuse, legal classifications, the present state of the law and the constitutional problems therein, techniques of enforcement, sentencing and alternative systems.

462 Vice Control (3) This course is designed to familiarize the student with the ramifications of vice control. It will cover such topics as prostitution, homosexuality, pornography, gambling and bookmaking as well as historical perspectives, statutes and interpretations, a comparison of illegal operations, enforcement techniques and legalization efforts, and other victimless crimes.

470 Interpersonal Relationships (3) This course is designed to aid students in recognizing changes which have affected them and led to the behavior they currently exhibit. They will recognize how self understanding leads to understanding relationships with others. The knowledge gained assists the students in relating to other persons in their personal, social, and vocational life space.

490 Field Placement and Integrated Seminar (12) Independent study based on visits to various levels of the criminal justice program: police clerks, police patrol, courts, correctional

institutions, parole offices. The design of each program depends on the students previous experience. Written reports required. For seniors only.

491 Field Placement Seminar (3) The student will conduct an intensive research paper in the area of concentration. The subject of the research will be approved by the instructor and periodic conferences will be scheduled.

496 Criminal Justice Planning (3) This course is intended to aid in the instruction of undergraduate students who are potential candidates for future planning evaluation or administrative positions. Given the newness of criminal justice planning, this course represents a beginning effort at a comprehensive discussion and review of justice system planning and evaluation.

Dental Hygiene

Russell K. Rickert,
Coordinator

COOPERATIVE DEGREE PROGRAM FOR DENTAL HYGIENISTS AND DENTAL ASSISTANTS

The Degree of Bachelor of Science will be conferred upon dental hygienists and dental assistants meeting the following requirements:

1. Satisfactory completion of an approved dental hygiene program or dental assistant program of two years duration.
2. Satisfactory completion of 64 semester hours at West Chester State College, including:
   a) 44 s.h general education requirements, or whatever other general education program is subsequently approved by the college.
   b) A minimum of six (6) coordinated courses approved by an advisor assigned by the program coordinator

PERSONS INTERESTED IN PRACTICING DENTAL HYGIENE IN AN EDUCATIONAL INSTITUTION SETTING MAY HAVE THE OPTION OF OBTAINING COURSES IN PRACTICA IN EDUCATION. WITH RESPECT TO CERTIFICATION IN EDUCATION THE INDIVIDUAL MAY CONTACT THE DEAN OF EDUCATION.

Applicants should consult the coordinator about available concentrations within this program.

Early Childhood and Elementary Education

E. Riley Holman
Chairperson

Robert W. Herres
Assistant Chairperson

PROFESSORS: King, Kulp, Peta, Ziegler
ASSOCIATE PROFESSORS: Brice, Chern, Dunlap, Good (Charlotte), Grasty, Habecker, Herres, Hoggard, Holman, Jacecko, Maxim, Petkofsky, Radich, Zimmerman
ASSISTANT PROFESSORS: Gibson, Grafton, Hasselquist
INSTRUCTOR: Morgan

The Department of Early Childhood and Elementary Education certifies teachers for elementary education (K-6), and early childhood education (NK-3).

The elementary education curriculum is designed to provide a broad background of general education, an understanding of children, and the knowledge and skills needed to teach all aspects of the elementary school program. Upon satisfactory completion of the approved program, the student will qualify for a Pennsylvania Instructional I Teaching Certificate, valid for teaching for three years in kindergarten, and grades one through six.

The early childhood curriculum is designed to provide both the liberal education and special preparation required for careers in public and private school teaching, and directorship and supervisory work in early childhood programs other than those under the auspices of the public schools. Upon satisfactory completion of the program, the student will qualify for a Pennsylvania Instructional I Teaching Certificate valid for teaching for three years in preschool, kindergarten, and grades on through three.

BACHELOR OF SCIENCE IN EDUCATION

(Curriculum K-6)

1. General Requirements: (44 s.h.) See page 70
   Literature, philosophy, art, and Introduction to Psychology are required.
2. Professional Education: (24 s.h.) EDF 100, EDP 250*, EDM 300, EDP 351*, EDE 411*
3. Specialized Preparation: (49 s.h.) EDE 200, EDE 251*, EDE 310*, EDE 311*, EDE 312*, EDE 332, EDE 352, EDE 401, EDE 406, HED 370, LIT 350, MAT 351***, MUS 231**, PED 200, SCE 310*. A course in art.

   *Courses requiring prerequisites—check catalog.
   **Placement examination required.
   ***Prerequisites are MAT 101 and MAT 102 (unless waived by examination).
4. Elective Area (See Concentration Areas) 11 s.h.

In order to meet the degree requirements, the student must choose from concentration areas (A-C) by selecting: (1) any one of the concentrations, or (2) any combination of courses

from any combination of concentrations (unless he or she chooses one of the two certification areas). The teaching certificate is not affected by any chosen area except for the certification program—Outdoor Environmental Education. Concentrations in Disciplines (B) and Concentrations in Specialized Programs (C) should be pursued under advisement.

(Concentrations outside of those offered by the education department should be planned in consultation with the chairperson or assigned advisor of the specific discipline.)

(Curriculum NK-3)

1. General Requirements: (44 s.h.) See page 70
   (Psychology, Anthropology/Sociology and MAT 101 are required)
2. Professional Education: (12 s.h.) EDF 100, EDP 250*, EDM 300, EDP 351*.
3. Specialized Preparation: (72 s.h.) ECE 100, ECE 101, ECE 105, LIT 352, ECE 201, ECE 202, ECE 203, HED 276, ECE 205, MUS 232, PED 449, ECE 301, ECE 302, ART 250, MAT 351A*, ECE 304, SCE 300, ECE 411.
   *Courses requiring prerequisites—check catalog.
4. Elective Areas: (5 s.h.) EDR 321, EDE 422.
   Concentration: (8 s.h.): EDA 140, ECE 203, EDA 141, ECE 303.
   Admission to the Early Childhood Certification Program is limited. Freshmen should apply during the first semester of their freshman year.

NOTE: The art course may credit to General Requirements. The course in physical education may be used to satisfy General Requirements.

The following policies apply to all students entering the Department of Early Childhood and Elementary Education.

INTERNAL TRANSFER STUDENTS (undeclared majors and change of majors) who desire admission into the Department of Early Childhood and Elementary Education may apply after the completion of 30 s.h. at West Chester State College. Of the courses listed under Specialized Preparation (see catalog) only ECE 100, EDE 200, and EDE 251 may be taken for degree credit prior to formal acceptance into the department. A cumulative grade point average of 2.0 or above plus an interview are prerequisites for acceptance into the department.

STUDENTS TRANSFERRING FROM COMMUNITY COLLEGES AND JUNIOR COLLEGES who desire admission into the Department of Early Childhood and Elementary Education may apply only with a grade point average of 2.0 or higher. Transfer credit will be granted for EDF 100, EDP 250, ECE 201, ECE 202, ECE 203, EDE 200, and EDE 251 if (a) the course descriptions are equivalent and (b) the grade is C or above.

APPROVED APPLICANTS FOR STUDENT TEACHING in Early Childhood (ECE 411) and Elementary Education (EDE 411) must have earned a cumulative grade point average of 2.25 or above and a grade of C or above in each course listed in Professional Education and Specialized Preparation.

ELECTIVE (CONCENTRATION) AREAS

A. ELEMENTARY EDUCATION
   Any combination of EDE courses not included in Specialized Preparation.

B. CONCENTRATION IN DISCIPLINES

The following areas of concentration are possible. Courses are to be selected under advisement.

Art	Geography	Music
Bilingual Education	Government and Politics	Psychology
Creative Arts	Health and Physical Education	Sciences
English	History	Social Sciences
Foreign Languages	Mathematics	

C. CONCENTRATION IN SPECIALIZED PROGRAMS

Early Childhood Education*	Reading
Environmental (Outdoor) Education*	Urban Education
Language Arts	

*This is a certification program.

COURSE DESCRIPTIONS

Symbol: ECE

100 Orientation to Early Childhood (3) An introduction to the history and philosophy of Early Childhood Education. Field observations in a variety of settings provide the student with an opportunity for career decision making.

101* Child Development (0-2 Yrs.) (3)** Physical, social, emotional and intellectual development of the child 0-2 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100

105* Infant Learning Environment and Field Experience (6)** The study of and use of developmental tests for the diagnosis of infant needs. The relationship of developmental level to the structuring of learning environment is developed as students interact with infants in school and home settings for three hours per week.

201* Child Development (2-5 Yrs.) (3)** Physical, social, emotional, and intellectual and moral development of the child 2-5 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100

202 Preschool Learning Environment (3)** Methods and materials for structuring the classroom environment for the child 2-5 years. Readiness skills and concepts in all curricular areas are addressed.

203 Field Experience (3 Yrs.) (3)** Students apply knowledge of theory and practice in early childhood settings with children 2-5 years. Students work with children in the field in two different experiences. Group seminars are held weekly.

204 Early Childhood Programs (3)** Study of contemporary program models in Early Childhood Education. Major trends in education of young children are defined.

205 Administration and Supervision of Early Childhood Programs (3)** Principles of administration and supervision of programs for young children. Includes parent education and community relations.

301* Child Development (5-8 Yrs.) (3)** Physical, social, emotional, intellectual and moral development of the child 5-8 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100

302* Early Childhood Language Arts (6)** The areas of listening, speaking, reading and writing are studied. Knowledge and use of specific diagnostic, prescriptive and evaluative techniques are addressed. Students work with school age children in the field to apply knowledge of theory and practice.

303* Field Experience (5-8 Yrs.) (3)** Students apply knowledge of theory and practice in early childhood settings with children 5-8 years. Students work with children in the field in two different experiences. Group seminars are held weekly. PREREQ: EDP 250

304* Social Studies and Socialization of the Child (3)** A consideration of methods of instruction that best generate a social education meaningful to primary grade children. Emphasis is placed on providing a learning environment that parallels the maturation of the young child.

411* Student Teaching and Practicum (12)** Three separate supervised student teaching experiences are required. Approximately five weeks of student teaching are spent in: 1) Preschool or Kindergarten, 2) First Grade, 3) Second or Third Grade. Weekly practicum sessions are scheduled by the student teaching supervisor. PREREQ: 96 semester hours including all professional education courses and all specialized-preparation courses and a G.P.A. of 2.0.

Symbol: EDE

200* Theory and Field Experiences in Elementary Education (3) Orientation to the curricula, processes, and structures of elementary education today. Field experiences related to course topics.

251* Child Development and Behavior (3) Emotional, social, mental, moral, physical, and self factors shaping human behavior, with emphasis on child and early adolescent development. Specific application to classroom settings. PREREQ: PSY 100.

301 Current Trends in Elementary Education (3) Recent trends related to basic changes in elementary education.

310* Communication Skills in the Elementary School (3) Study of teaching the language skills in the elementary school: listening, speaking, and writing. Students also participate in a tutorial program in local schools. PREREQ: EDE 251

311* Introduction to Reading Instruction (3) An exploratory course investigating the reading process, learning theory and its relation to reading, readiness for reading, historical scope of and various approaches to reading. PREREQ: EDE 251

312 Reading Instruction and Practicum (6)** Focus is on mastery of the teaching of reading. Different reading programs are examined and evaluated. The student learns how to sequence the instruction of reading. Tutoring individual children and small groups is integrated with the planning of lessons. The student also learns how to evaluate pupil performance in reading and how to plan for remediation. PREREQ: EDE 311

315 Developmental Reading for the Handicapped Child (3) The focus of this course is: the study of the nature of the reading process and its relation to language development; motivation and methodology for developmental reading skills; reading programs and materials; problems in dealing with handicapped children; and practicum in reading instruction. Required course for special education majors only.

330 Instructional Programs and Strategies (3) Introduction to principles underlying the development of instructional programs in the schools. Strategies include cognitive and skill learnings and modes of teaching. Required course for special education majors only.

332* Teaching Social Studies in the Elementary School (3) Methods of teaching social studies and geography in the elementary curriculum. Techniques, current research projects, reading materials, audio-visual aids, resource persons, and field trips as tools of learning. The organization, development, and use of resource units are stressed.

352* Self And Group Processes in the Classroom (3) Analysis of self processes influencing teacher-student classroom interactions. Role of needs, defenses, motives, emotions, and early learning experiences as they shape the prospective teacher's responses to elementary children. Application of social learning and interpersonal theory. PREREQ: 251.

401* Creativity in the Classroom (3) Exploration of materials and processes of children's perceptions and behavior, aimed at encouraging the development of their critical and creative potentials.

406 Classroom Management (3) Detailed investigation into the elementary teacher's role in classroom management. Teacher influence, personality, and class interaction; class roles and expectation; seating plans; discipline; referral; the teacher's role in evaluating and identifying potential problems in children.

410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of elementary education which will sharply increase her/his knowledge of elementary education. PREREQ: permission of department chairperson.

411 Student Teaching and Direction of Student Activities (Elementary Majors) Including Practicum (12)** Observation and participation in teaching and all other activities related to the teacher's work in the elementary school. Students meet once each week in a practicum session. PREREQ: 96 semester hours including all professional education courses and all specialized preparation courses and a G.P.A. of 2.0.

412 Work-Study in the Elementary School (6)** Limited practicum for pre-service teachers who have taken EDE 200, 251, 311, 312, 406. Students work for a full term in one school district under supervision. Six credits may be granted toward student teaching requirements (EDE 411). PREREQ: departmental approval.

421 Seminar in Elementary Education (3) An intensive study of some current, major developments in elementary education. Topics announced in advance. PREREQ: Senior standing and instructor approval.

422 Seminar in Reading (3)** Intensive study of some current major developments in reading related to elementary education. Topics announced in advance. PREREQ: instructor approval.

423 Seminar in Communication Skills (2)** Intensive study of some current major developments in communication skills (language arts) related to elementary education. Topics announced in advance. PREREQ: instructor approval.

481* Constructing Activity-Oriented Teaching Materials For The Elementary School Classroom (3) A workshop experience for students interested in exploring the many facets of making activity-oriented learning materials for the elementary school classroom. PREREQ: EDM 300.

*Open to Early Childhood and Elementary Education majors or permission of instructor
**Open to Elementary Education majors only
***Open to Early Childhood majors only

Earth Sciences

Louis Casciato
Chairperson

PROFESSORS: Greenberg, Reed, Rickert, Widick
ASSOCIATE PROFESSORS: Casciato, Ehleiter, Harber, Johnson

The Department of Earth Sciences offers two programs leading to the Bachelor of Science in Education. Both are designed to prepare teachers for secondary schools and are ideal for students who plan to teach the junior high school sciences.

The department also offers a program leading to the Bachelor of Science in Earth Sciences. This is a liberal arts program that prepares the student for industry and graduate studies. Individualized specialties are available within this program.

In addition, an inter-departmental program which leads to the Bachelor of Science in Chemistry-Geology is available.

BACHELOR OF SCIENCE IN EDUCATION—EARTH AND SPACE SCIENCE

Specialized Preparation

CHE 103-104 and **either** CHL 103 or 104; PHY 103-104; CSC 101 or 141; MAT 105 (Students with a strong background in high school algebra and trigonometry may substitute MAT 161 and MAT 162); ESS 160, ESS 201, ESS 211, ESS 111, ESS 455, ESS 240, ESS 230, ESS 320; SCE 350; plus a total of at least seven credits from among the following; ESS 160; ESS 220, ESS 250, ESS 260, ESS 302, ESS 303, ESS 305, ESS 311, ESS 330, ESS 339, ESS 340, ESS 480, ESS 410, ESS 475, ESS 476, or any course from the Marine Science Consortium.

BACHELOR OF SCIENCE IN EDUCATION—GENERAL SCIENCE

Specialized Preparation

BIO 110 and one biology course other than BIO 100; CHE 103-104, CHL 103-104; PHY 103-104, ESS 111, ESS 201 and one of the following. ESS 230, ESS 240 or ESS 211; CSC 101 or 141; MAT 105 (Students with a strong background in high school algebra and trigonometry may substitute MAT 161 and MAT 162) SCE 350.

Science Electives—9 or 10 s.h from any courses in the science departments of the School of Sciences and Mathematics or the Marine Science Consortium.

BACHELOR OF SCIENCE IN EARTH SCIENCE

Specialized Preparation

BIO 110; CHE 103-104 and either CHL 103 or CHL 101 or 104; CSC 141; MAT 161 and MAT 162 (students lacking a strong background in high school algebra and trigonometry must also take MAT 105); PHY 103-104; ESS 111, ESS 201, ESS 211, ESS 230, ESS 240, ESS 302, ESS 305, ESS 311, ESS 320, ESS 330, ESS 410, ESS 455, ESS 340, or ESS 475, ESS 476.

Science Electives—9 s.h. From any courses in the science departments of the School of Science and Mathematics or the Marine Science Consortium.

BACHELOR OF SCIENCE—CHEMISTRY-GEOLOGY

Concentration Requirements for this program are:

CHE 321, 341 or 345, 411
CHL 321, 341
ESS 201, 211, 302, 305, 311, 321
In addition 8 credits in chemistry and 8 credits in earth science electives should be taken.

Related Courses

One course in computer science or statistics.

COURSE DESCRIPTIONS

Symbol: ESS unless otherwise shown.

SCE 300 Science in the Primary Grades (3) A comprehensive coverage of the teaching of science in the pre-school and primary grades (K-3).

SCE 310 Science for the Elementary Grades (3) A course to prepare the elementary teacher for teaching science. Selected units or problems which cut across various fields of science. Methods and processes of science and available resources. PREREQ: Completion of science and mathematics general education requirements.

SCE 350 Science Education in the Secondary School (3) Philosophy, objectives, and methods of teaching science. Practical experience provided. PREREQ: A major in liberal arts or secondary education (sciences).

101 Earth Science (3) The earth's composition and history; the processes that occur on and within the earth.

111 General Astronomy (3) A descriptive course including the composition and evolution of solar and stellar systems. 2 hours lecture, 2 hours lab.

160 Nautical Astronomy (Celestrial Navigation) (3) Technical skills including celestial coordinates, principles of time, the navigational triangle, lines of position and star identification.

201 Physical Geology (3) The earth's composition (minerals and rocks) and earth processes (weathering, erosion, volcanism, and diastrophism). 3 hours lecture

ESL 201 Physical Geology Laboratory (1) 2 hours-(required with lecture).

211 Historical Geology (3) The geologic history of the earth and the evidences for this history.

220 History of the Earth Sciences (3) An examination of the history of scientific thought and contributions in the area of the earth sciences. PREREQ: Completion of core requirements in science and mathematics.

230 Introduction to Oceanography (3) A survey of our present knowledge of the waters and floor of the oceans.

ESL 230 Introduction to Oceanography Laboratory (1)

240 Introduction to Meteorology (3) Principles governing the conditions of the earth's atmosphere; how these principles determine weather conditions.

250 Environmental Geology (3) A study of earth systems and man's affects on them. Evaluation of energy resources. PREREQ: One year of college physics, one course in earth science or permission of instructor.

260 Archeoastronomy (3) Astronomical skills of the Babylonians, Egyptians, Greeks, Chinese, Maya, Incas, Aztecs and the North American Indians. (2 hours lecture and 2 hours laboratory per week).

302 Mineralogy (3) Physico-chemical principles used in the classification, identification, and origin of minerals Field examination of local minerals PREREQ. CHE 104, ESS 201.

303 Intermediate Mineralogy (3) How the petrographic microscope and x-ray diffraction, are used to identify minerals. PREREQ: One course in basic mineralogy (ESS 302).

305 Petrology (3) Principles of rock origin, identification and classification. Laboratory and field examination of rocks. PREREQ. ESS 302.

313 Geochemistry (3) The chemistry of the earth and its relation to geologic processes. PREREQ: CHE 104, ESS 201.

320 Structural Geology (3) Determination of the sequential development and the forces involved in the various structural features of the earth. PREREQ: ESS 201, 211

330 Introduction to Fossils (3) Identification and study of common fossils in order to understand their life process and geologic significance. PREREQ: one course in geology.

335 Stratigraphy (3) Description and evaluation of the physical, chemical, and biologic environment during the formation of stratified rock. PREREQ: ESS 201, 202.

337 Sedimentation (3) Introduction to the analysis of sedimentary rocks: classification, erosion, transportation and deposition of stratified rock; paleoenvironment interpretations. PREREQ: ESS 201 and ESS 211.

339 Groundwater Geology (3) The factors that control the distribution occurance, and recoverability of groundwater, techniques for locating and estimating recoverable water, groundwater pollution, and waste water disposal. PREREQ ESS 201, 211

340 Geophysics (3) Gravitational, magnetic, seismic (refraction and reflection), and electrical properties of rocks and minerals in the earth. Physical principles of the earth; geophysics in relation to economic deposits. PREREQ: ESS 201, and 211, PHY 102 or 104.

ESS 405 Economic Geology (3) The origin, geologic and geographic distribution, limits, and production technology of mineral resources. PREREQ: ESS 101 or ESS 201, or permission of instructor.

408 Field Geology (3) Practical experience in the techniques and tools of the field geologist PREREQ: ESS 201, 211, 305.

410 Independent Studies (1 to 3)

455 Intermediate Astronomy (3) An analytical and qualitative analysis of selected astronomical phenomena. Such topics as: telescope optics (including photographic and photoelectric attachments), lunar and planetary orbits, stellar motions and magnitudes, galactic classifications and distances. 2 hours lecture, 2 hours lab.

475 Teaching in the Planetarium (3) Principles and use of the planetarium in teaching situations. Specific projects are assigned. PREREQ: ESS 111.

476 Planetarium Productions (3) The activities of this course will center around the production of a major planetarium production. PREREQ: ESS 111 and consent of instructor.

480 Special Problems (1 to 3) Reports on special topics and current developments in the earth and space sciences. PREREQ: consent of instructor.

490 Fundamentals of Soils (3) The properties of soils, edaphology, pedology: chemical, physical, and biological factors. Soil genesis and classification.

MARINE SCIENCE

The following courses are given at the Marine Science Consortium field stations in the summer only. For further information communicate with the Department of Earth Sciences.

MSC 110 Introduction to Oceanography (3) Physical, chemical, and biological aspect of the oceans. Emphasis on lab and at-sea assignments.

MSC 211 Field Methods in Oceanography (3) Field work on board small research vessels; use and application of standard oceanographic instruments and sampling devices. PREREQ: MSC 110 or consent of instructor.

MSC 221 Invertebrate Zoology (3) Development, reproduction, structure, function, and classification of selected marine organisms. Laboratory and field experience in collection, preservation, and classification. PREREQ: 1 year of biology or consent of instructor.

MSC 241 Marine Biology (3) Biology of marine plants and animals, field samplings, identification, and analysis. PREREQ: 1 year of biology or consent of instructor.

MSC 260 Marine Ecology (3) Relationship of marine plants and animals to physical, chemical, and biological factors; their zonation and communities. PREREQ: 1 year of biology or consent of instructor.

MSC 331 Chemical Oceanography (3) Oceanic chemical phenomena, sampling, and laboratory analysis techniques. PREREQ: MSC 110, one year of college chemistry, or consent of instructor.

MSC 342 Marine Botany (3) Marine and marine fringe plants of the Middle Atlantic coast. Techniques of collecting, identifying, and herbarium cataloging. PREREQ: a course in general biology or 1 semester of botany.

MSC 343 Ichthyology (3) Anatomy, physiology, and systematics of fish along our eastern seaboard. PREREQ: general biology or zoology or consent of instructor.

MSC 362 Marine Geology (3) Structural and sedimentary environment of the continental shelf, slopes, and ocean basins; genesis of the ocean basins. PREREQ: MSC 110 and ESS 201 or consent of instructor.

MSC 364 Physical Oceanography (3) Physical properties of the ocean; basic instrumentation in field work. PREREQ MSC 110, PHY 103, 104, MAT 161 or consent of instructor.

MSC 420 Marine Micropaleontology (3) Paleontology of the Foraminifera (Sarcodina), Radiolaria, Diatoms, and Ostracoda PREREQ: 1 year of geology or 1 course each in geology and biology or consent of instructor.

MSC 457 Marine Geophysics (3) Laboratory and field assignments employing a portable refraction seismograph, gravity meter, and magnetometer. PREREQ: MSC 110, ESS 201, 1 year of mathematics or consent of instructor.

MSC 458 Exploration Methods in Marine Geology (3) Geophysical and geological instruments and techniques used to study the topography and geology of the ocean bottom. PREREQ: ESS 201 and 1 year of mathematics or consent of instructor

Economics—See Business and Economics

Education—See Early Childhood and Elementary Education, Instructional Media Education, Reading, Secondary Education and Professional Studies, Special Education, Dental Hygiene, Environmental (Outdoor) Education and Health, Physical Education, and Recreation

Elementary Education—See Early Childhood

Engineering—See Physics

English

David E. McKenty,
Chairperson
William H. Henry, Jr.
Assistant Chairperson

PROFESSORS: Bailey, Brooks, Falgie, Field, Garrett, Green, Haviland, Henry, Kent, Kershner, McGrath, McKenty, Markow, Myrsiades, Oldsey, Taylor, Weiss, West, Ziegler
ASSOCIATE PROFESSORS: Bosworth-Fling, Browne, Bruton, Corr, Ford, Fordyce, Gaunt, Hunsberger, Kelleher, Kelly, McCawley, Miller, Page, Prater, Smith, Ward, Wise
ASSISTANT PROFESSORS: Boylan, Combs, Peich, Rimel, Thurbon

The Department of English offers two degree programs: the Bachelor of Arts in Literature and, in cooperation with the School of Education, the Bachelor of Science in Education. Each program is planned in consultation with an advisor.

The Bachelor of Arts in Literature prepares the student for graduate studies, journalism, publishing, editing, public relations, advertising, and other specialized careers. The required courses provide a broad foundation in literature, an introduction to writing and the study of language, and an orientation in career planning and opportunities. The wide choice of electives permits the student to structure a program compatible with his/her particular career goals and interests.

The Bachelor of Science in Education prepares the student to teach English in the secondary schools of Pennsylvania under an Instructional I Certificate. Before permission to student teach is granted, students in this program must (1) satisfy the prerequisites for student teaching listed on page 215 and (2) satisfy specific English Department requirements outlined in the *Handbook for English Majors.*

BACHELOR OF ARTS IN LITERATURE

128 Semester Hours

1. General Requirements, see page 70 — 44 s.h.
2. Arts and Letters Core Requirements, see page 72 — 15 s.h.
3. Foreign Language Requirement, see page 71 — 3-12 s.h.
4. Cognate Courses, one from History and one from Political Science — 6 s.h.
5. Departmental Requirements — 33 s.h.
   LIT 100—Practical Criticism
   ENG 230—Introduction to Linguistics
   LIT 260—Continental Literature I
   LIT 261—Continental Literature II
   LIT 230—English Literature I or one Group A course—Consult *Handbook for English Majors.*
   LIT 231—English Literature II or one Group B course—Consult *Handbook for English Majors.*
   LIT 200—American Literature II or one Group C course in the appropriate period—Consult *Handbook for English Majors.*
   LIT 201—American Literature II or one Group C course in the appropriate period—Consult *Handbook for English Majors.*
   One course from Group D or E—Consult *Handbook for English Majors.*
   One advanced writing course
   LIT 400—Literature Seminar
6. Departmental Electives — 18 s.h.
   Selected under advisement from LIT groups A-E and approved English and Humanities courses. Consult *Handbook for English Majors.*
7. Free Electives — 0-9 s.h.

BACHELOR OF SCIENCE IN EDUCATION—ENGLISH

130 Semester Hours

1.	General Requirements, see page 70	44 s.h.
2.	Arts and Letters Core Requirements, see page 72	15 s.h.
3.	Cognate Courses, one from History and one from Political Science	6 s.h.
4.	Professional Education Requirements, see page 215 These include ENG 390—Teaching English in Secondary Schools	29 s.h.
5.	Departmental Requirements LIT 100—Practical Criticism LIT 260—Continental Literature I ENG 230—Introduction to Linguistics ENG 331—Structure of Modern English ENG 335—History of the English Language LIT 200—American Literature I or LIT 201—American Literature II LIT 230—English Literature I or LIT 231—English Literature II One course from Group A, B, C, or D One advanced writing course LIT 400—Literature Seminar	30 s.h.
6.	Departmental Electives Selected under advisement from LIT groups A-E and approved English and Humanities courses. Consult *Handbook for English Majors.*	6 s.h.

COURSE DESCRIPTIONS

ENGLISH

Symbol: ENG

000 Basic Writing (0) A preparatory course of study which emphasizes the basic grammatical, logical, and rhetorical skills that produce effective paragraphs.

030 English for Non-native Speakers (0) Individualized instruction for the non-native speaker: conversational English, formal written English, reading and listening comprehension, and grammar.

120 Effective Writing I (3) An intensive course in writing which emphasizes skill in organization and awareness of styles of writing and levels of usage as ways of expressing and communicating experience.

121 Effective Writing II (3) Continues the expository writing experience offered in Effective Writing I, and explores techniques of gathering, evaluating, and selecting materials to be used in writing research papers.

122 Effective Writing II (3) An introduction to research techniques for political science majors, emphasizing problem formulation, descriptive and causal analysis, documentary research, questionnaire survey, statistical analysis, and interview.

123 Seminar in Exposition (3) For English and communication majors. Extensive practice in basic expository and argumentative writing skills, with emphasis on language awareness.

125 Writing for English and Communications Majors (3) Introduces rhetorical modes and strategies of expository and argumentative writing, especially as applicable to the analysis of literature; requires a research paper on a literary topic.

200 Writing Improvement (1, 2, or 3) Intensive instruction to aid students experiencing serious difficulties with their writing assignments in other courses. Not open to freshmen. Pass/Fail only.

201 Advanced Writing (3) Frequent practice in expository, descriptive, narrative, and argumentative techniques, with emphasis on style. Writing is criticized and corrected in private sessions.

202-203 Creative Writing I-II (3) (3) Writing experience in the crafts of fiction, poetry, and drama

204 Practical Prose Composition (3) Writing in various modes that authentically mirror real situations in everyday life including the world of work.

205 Writing from Experience (3) Exploration of personal history and attitudes through carefully structured composition tasks of autobiographical narrative memoir and introspective analysis.

230 (also LIN 230) Introduction to Linguistics (3) Basic concepts of language description, classification, change, reconstruction, dialectology, and sociolinguistics. (Prerequisite for all courses in English language.)

260 Mass Media in Society (3) Introduction to theory and problems of mass media and their role in American culture.

265 News Reporting (3) Principles of news reporting and practice in gathering and writing news for all media. Research, writing, and the interview.

266 Writing for Magazines and Newspapers (3) Writing for publication. Developing ideas, gathering material, writing articles for both magazines and newspapers. Marketing methods for the freelancer.

267 History of Communications (3) History and development of newspapers, magazines, documentary films, radio, and television.

268 Business Communication (3) The nature of communication within organizations. Theoretical basis and practical application.

275 Literary Editing and Publishing (3) Experience in publishing the student literary magazine *Daedalus*: editing, proofing, photographic selection and layout, printing.

276 News Editing (3) Basic principles of editing for newspapers and magazines: editing practices, critical analysis of newspaper and magazine articles, practical exercises in editing copy for print.

301 Poetry Workshop (3) The theory and practice of poetry; exploration of verse forms, prosody, metrics; practice in critical and interpretive analysis of poems written by fellow students and professional poets. The poem as a product of skilled craftsmanship.

302 Drama Workshop (3) Writing the play: possibilities and limitations of the stage. Attention to sets and costuming where relevent. Characterization by action and dialogue. Problems of establishing motivation. The play's totality in theme, character, and action. Informal readings of student work.

303 Short Story Workshop (3) Crafting the modern short story with reference to American and British models. The significance of setting, atmosphere, characterization, and theme. Discussion and some exploitation of experimental ideas in the genre.

304 Essay Workshop (3) Practice in writing the essay. Conventions and techniques of this literary form as it appears in commercial and quality magazines.

330 English Phonology (3) Phonemics and morphophonemics in English. Writing systems and phonemic-graphemic relationship in English. Historical development of English sounds. PREREQ: ENG 230.

331 Structure of Modern English (3) A detailed analysis of the modern descriptive approach to the study of English grammar and how it compares with the traditional approach. PREREQ: ENG 230.

335 History of the English Language (3) Review of the influences on the development of the English language. PREREQ: ENG 230.

339 History and Dialects of American English (3) Development of the English language in America since colonial settlement. American and British English. Pronunciation, vocabulary, and grammar of the regional and social dialects of American English. PREREQ: ENG 230.

340 Sociolinguistic Aspects of English (3) The study of language in its social context: the ethnography of communication; language and society, social classes, ethnic groups, politics, sex, and education. PREREQ: ENG 230.

350 Introduction to English as a Second Language (3) Exploration of the scope of the field, types of programs, general approaches to instruction.

390 Teaching English in Secondary Schools (3) Review of language-arts requirements in secondary schools. Special reference to grade-placement with adaptation of materials, appraisal of results, and development of programs of study. PREREQ: ENG 331, 335, EDM 300, EDP 351, EDS 306.

400 Writing Seminar (3) Special topics to be announced such as Fantasy and Science Fiction, Longer Prose Works, or The Anti-Story.

410 Independent Study (3)

430 Language Seminar (3) Studies in English language and linguistics. PREREQ: ENG 230 and at least junior standing.

490-491 Writing Seminar in the Novel I-II (3) (3) A course in the writing and preparing of book-length manuscripts (novel, novella, "non-fictional" novel) with the intention of submission for publication. Also includes coverage of fictional aspects and techniques used in writing memoirs, biography, current history.

LITERATURE

Symbol: LIT

100 Practical Criticism (3) Study of and practice in the literary analysis of selected poetry, prose fiction, and drama.

101 Great American Writers (3) Major American writers from Franklin to Faulkner. Not open to English majors.

130 Great British Writers, Post Renaissance (3) Major British writers from Milton to the present. Not open to English majors.

160 General Literature I (3) Western literature from Homer through Shakespeare. Not open to English majors.

161 General Literature II (3) Western literature from Shakespeare to the present. Not open to English majors.

162 Fiction (3) Basic analysis of various forms of fiction: short story, novella, novel. Interpretation based on the relationship between form and content. Not open to English majors.

163 Drama (3) An introduction to drama, extending from the classical Greek tragedy to the Theater of the Absurd. Not open to English majors.

164 Poetry (3) Analytical readings within a broad spectrum of English and American poetry from Chaucer to the present. Not open to English majors.

200 American Literature I (3) A survey of representative American writers from Colonial times to 1860, including Bradstreet, Taylor, Franklin, Poe, Thoreau, Hawthorne, and Melville.

201 American Literature II (3) A survey of representative American writers from 1860 to the present, including Whitman, Twain, James, Crane, Eliot, Frost, Hemingway, and Faulkner.

202 Afro-American Literature I (3) Survey of Afro-American authors from the antebellum era through the first quarter of the 20th century. (Group C)

203 Afro-American Literature II (3) Continuation of LIT 202. Second quarter of the 20th century to the present. (Group C)

230 English Literature I (3) A survey of English literature from Anglo-Saxon writing through the 18th century.

231 English Literature II (3) A survey of English literature of the 19th and 20th centuries.

260 Continental Literature I (3) Literature of continental Europe from classical times through the Renaissance.

261 Continental Literature II (3) Literature of continental Europe from Neoclassicism to the present. (Group D)

262 Classical Literature in Translation (3) The growth and development of Classical literature with emphasis on the epic, the tragedy, the comedy, and the lyric poem. (Group D)

263 Bible as Literature (3) Books of the English Bible, especially the King James Version, as a part of English and American literature. (Group D)

264 Literature and Myth (3) Traditional, anthropological, and psychoanalytic interpretations of myth in literature. (Group D)

265 Literature and Psychology (3) An examinetion of the relationships between literature and psychology, and readings from drama (Shakespeare, Ibsen, Albee), poetry (Poe, Browning, Eliot), and fiction (Tolstoy, Joyce, Woolf, Mann, Kafka, Faulkner). (Group E)

266 Science Fiction (3) A critical study of the science fiction novel focusing on the works of contemporary writers such as C. S. Lewis, Asimov, Heinlein, Zelazny, Niven, Anthony, Herbert, LeGuin, and Delany. (Group E)

267 The Supernatural in Literature (3) A study of the representation in literature of supernatural influences displayed in the writings of Homer, Aeschylus, Vergil, Spenser, Shakespeare, Middleton, Ford, Greene, Blake, Keats, Poe, James, Wilde, and Synge. (Group E).

268 Love in Literature (3) The changing roles of the sexes as revealed in literature. Examination of Platonic, Courtly, and Romantic love. Outside speakers on related topics. (Group E)

269 The Literature of Roguery (3) A historical study of the rogue in fiction with emphasis on the satiric view of society. Among writers studied: Defoe, Thackeray, Donleavy, and Wolfe. (Group E)

270 Literature of the Cities (3) Covers a variety of responses of contemporary writers, artists, and planners to the rise of the modern city. (Group E)

271 Literature of the Left (3) A study of prominent leftist writers and their works, including Mayakovsky, Neruda, Aragon, Lorca, Ritsos, Brecht, Malraux, Orwell, and Sartre. (Group E)

272 New Fiction (3) Fiction published in the last ten years. (Group E)

274 Feminist Poetry (3) A study of poetry espousing the feminist cause and exploring the feminist response. Techniques and attitudes of such poets as Plath, Sexton, Rich, Morgan, Wakoski, and Kumin. (Group E)

275 Religious Themes in Western Literature (3) Analysis of five or six major writings in Western literature such as St. Augustine's *Confessions*, Dante's *The Divine Comedy*, Tennyson's *In Memoriam* examining the artistic use of religious themes.

276 Modern Greek Poetry (3) The development of modern Greek poetry from Cavafy to the present; emphasis on selected poetry of Cavafy, Sikelianos, Elytis, Seferis, and Ritsos.

277 Modern Greek Prose (3) Greek fiction since the First World War with special attention given to the novels of Kazantzakis and contemporary prose of such writers as Tsirkas, Vassilikos, Taktsis, Samarakis, Hatzis.

290 Introduction to Film (3) A critical-analytical approach to world cinema covering film theory and the major film movements (American film, Soviet realism, German expressionism, Italian neorealism, and surrealism) from the beginning of the silent era through the development of sound up to 1959. (Group E)

291 The Contemporary Film (3) A critical-analytical approach to world cinema covering major film movements and theory since 1960. (The French New Wave, Bergman, Kurosawa, Cinema Nuovo, Eastern European film, and New American film). (Group E)

292 Avant-Garde Film (3) The function of cinema in contemporary society as a socio-cultural, economic, and political object, as seen through critical analysis of experimental and documentary films. (Group E)

295 Children's Literature (3) A critical study of literature for children, setting standards for evaluation and appreciation.

296 Adolescent Literature (3) A survey of literature written for readers of junior high and high school age. The primary aim is to find standards of literary evaluation for adolescent works.

300 Colonial and Revolutionary American Literature (3) Writers of Colonial and Revolutionary America (Group C)

301 Folklore in America (3) A study of folklore in American life and literature, with emphasis on occupational, regional, and ethnic influences. (Group C)

302 Development of the American Novel (3) Beginnings of the American novel to Frank Norris. (Group C)

303 Introduction to Multi-Ethnic American Literature (3) American ethnic, racial, and national groups in American literature and the contributions of creative literary artists representing these cultures. (Group C)

304 American Jewish Novel (3) A study of major American Jewish novelists: Cahan, Singer, Roth, Potok, Bellow, Malamud, Wallant, and Wiesel. No knowledge of Yiddish or Hebrew necessary. (Group C)

305 Modern American Drama (3) American drama from the early 1900's to the present, with emphasis on the development of the American Theater as seen in such major dramatists as O'Neill, Odets, Wilder, Miller, Williams, and Albee. (Group C)

306 Modern American Novel (3) The novel in America from Dreiser to the present. (Group C)

307 Modern American Poetry (3) Major 20th-century American poets. (Group C)

308 American Women Writers (3) A portrait of the American woman: her social position, her attitudes toward sexuality A re-evaluation of women writers in view of these observations: Olsen, Cather, Chopin, Oates, and others. (Group C)

330 Old English Language and Literature (3) An introductory study of the language (450-1150 A.D.) through a reading of religious and secular poetry and prose. (Group A)

331 Middle English Language and Literature (3) An introductory study of the language (1150-1450 A.D) through a reading of selected literary texts. (Group A)

332 English Drama to 1642 (3) English drama from the early liturgical tropes to 1642, exclusive of Shakespeare. (Group A)

333 Tudor Literature (3) Prose and poetry of the Tudor period. Thomas More to Edmund Spenser. (Group A)

334 Stuart Literature (3) Prose and poetry of the Stuart period. Jonson and Donne to Dryden. (Group A)

335 Shakespeare I (3) Selected comedies, histories, and tragedies. Literary historical background and Shakespeare's development as a dramatist. (Group A)

336 Shakespeare II (3) Similar to LIT 335 with a different choice of plays; either course may be taken first (Group A)

337 Literature of the Enlightenment (3) A critical consideration of the 18th-century writers, exclusive of the dramatists. The struggle between tradition and revolt. (Group B)

338 Restoration and 18th Century Drama (3) The drama from the reopening of the theaters in 1660 to 1800. (Group B)

339 18th Century British Novel (3) The British novel from Defoe to Austen. (Group B)

340 The Romantic Movement (3) Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine. (Group B)

341 19th Century British Novel (3) The British novel from Austen to Hardy. (Group B)

342 Victorian Literature (3) Victorian thought and culture in poetry and non-fiction prose. (Group B)

343 Modern British Drama (3) British drama from Wilde to the present, with emphasis on the rebirth of the British drama and its major writers. (Group B)

344 Modern British Novel (3) The novel in England from Conrad to the present. (Group B)

345 Modern British Poetry (3) Major 20th-century British poets. (Group B)

360 Oriental Literature (3) A survey of the literature of both the Near and Far East from Classical times to the present. (Group D)

361 Modern Continental Drama (3) A consideration of the chief writers who influenced the modern drama: Ibsen, Strindberg, Chekhov, Hauptmann, Pirandello, Sartre, Brecht, and Ionesco. (Group D)

362 Modern Continental Fiction (3) Important modern European writers in translation: Flaubert, Dostoevsky, Unamuno, Gide, Mann, Kafka, Camus, Sarte, and Moravia. Their aesthetic and philosophical contributions to modern fiction. (Group D)

363 Modern Literature of Russia and Eastern Europe (3) A study of a selected number of modern works by Dostoevsky, Gogol, Bunin, Brecht, Kafka, Lukacs, Benjamin, which demonstrate the interrelationship of the national literatures of Eastern Europe and display common themes and styles. (Group D)

364 Modern Irish Literature (3) Major literary writers of Ireland from 1840 to the present: George Moore, Synge, Yeats, Joyce, Shaw, O'Casey, Beckett, Behan, and Brian Moore. (Group B)

365 Short Fiction (3) Analysis and interpretation of short fiction. (Group E)

366 Criticism (3) A study of the theories of classical antiquity, England, and the United States, with emphasis on the relevance of these theories to English and American literature of the moment. (Group E)

390 Comparative Cinema (3) A comparative approach to the study of film, which each semester focuses on a selected theme (myth and film, subversive film, Brechtian film), director (Pasolini, Bergman), or cinema group (Eastern European film, Oriental film). (Group E)

400 Literature Seminar (3) Topics announced annually. Required of English majors in the junior or senior year. May be repeated for credit.
Topics previously offered:

Doris Lessing
Emerson
Children's Novel
Fantasy
American-Jewish Novel
Hawthorne
Spenser-Milton
Joyce-Beckett
Ibsen-Chekov
Hamlet
Shaw
Longer Prose Fiction
Mark Twain
The Devil
Byron
Colonial Literature
Jane Austen
Odysseus as a Modern Hero
Whitman and Melville
F. Scott Fitzgerald
Satire and Irony
Archetypes and Ethnic Stereotypes in American Literature
Willa Cather

435 Chaucer (3) An interpretation of **Canterbury Tales** and **Troilus** and **Criseyde** (Group A)

437 Spenser (3) A study of **The Faerie Queene** and shorter poems. (Group A)

440 Milton (3) A survey of the major poetry and prose works. (Group A)

The English department accepts certain humanities courses as major electives. Consult the *Handbook for English Majors* for a list of approved humanities courses.

Environmental (Outdoor) Education

Certification Program

John Holingjak,
Coordinator

This interdisciplinary program enables teacher-education majors to secure certification to teach environmental (outdoor) education. The course sequences in the program are drawn from existing curricula in the natural sciences, social and behavioral sciences, and health and physical education and permit students to graduate with dual certification. That is, their teaching certificates will be valid for environmental education as well as for their major area of study. For the additional certification in environmental education, students are required to complete four core courses and two elective courses chosen from one of the following areas of concentration: natural sciences, recreation-centered, man-centered, or curriculum-centered. Students wishing to explore this program should consult with the coordinator of environmental education.

REQUIRED CORE COURSES

	Semester Hours
Conservation of Natural Resources (GEO 230)	3
Basic Ecology (BIO 201)*	4
Field Ecology and Natural History (BIO 272)*	3
Organization and Administration of Outdoor Education (EDO 420)	3
	13

ELECTIVES — two courses from one of these areas:

Group A — Natural Sciences
Field Botany (BIO 275)
Field Zoology (BIO 277)
Entomology (BIO 377)
Ornithology (BIO 378)
Earth Science (ESS 101)
General Astronomy (ESS 111)
Physical Geology (ESS 201)
Introduction to Oceanography (ESS 230)
Marine Ecology (MSC 260)

Group B — Man-Centered
Environmental Crises (GEO 232)
Introduction to Anthropology: Cultural (ANT 102)
Human Paleontology (ANT 331)
Culture Change (ANT 333)
Regional Planning (GEO 214)
Introduction to Sociology (SOC 100)
Urban Sociology (SOC 336)
Urban Growth Dynamics (GEO 212)
Population Problems (GEO 210)

Group C — Recreation-Centered
Principles of Recreation (PED 250)
Camping and Outing (PED 370)
Supervised Camping Leadership (PED 467)
Arts and Crafts in Recreation (PED 367)

Group D — Curriculum-Centered
Conservation Education Curriculum (K-12) (EDO 405)
Methods in Conservation Education (EDO 410)
History of Conservation (EDO 415)
Independent Studies in Environmental Education (EDO 425)
Environmental (Outdoor) Education Workshop (EDO 411)

*Biology majors must substitute biology courses from Group A with approval of advisor

NO TRE

COURSE DESCRIPTIONS

Symbol: EDO

405 Conservation Education Curriculum (K-12) (3) Conservation education as it exists in the present school curriculum, and ways to integrate conservation into elementary and secondary school disciplines. Characteristics, interrelationships, and uses of our natural resources; problems and policies of industrial management in conservation as they are related to the school curriculum.

410 Methods in Conservation Education (3) Basic concepts and practices of conservation and outdoor education and their role in the school program.

415 History of Conservation (3) Development of the conservation movement in the U.S., with emphasis on the progressive adaptations of conservation to our changing social and economic order

420 Organization and Administration of Outdoor Education (3) Basic concepts of outdoor education; the role of outdoor education in the school program; the initiation and administration of outdoor education

425 Independent Studies in Environmental Education (3) Special research projects, reports, readings in conservation and outdoor education. Open to seniors only. PREREQ: permission of instructor.

Ethnic Studies

Andrew Dinniman
Director
Jorge Escorcia
Associate Director

EXECUTIVE COMMITTEE: Andrew Dinniman, Jorge Escorcia, Bonita Freeman-Witthoft, Jody M. Harris, Kostas Myrsiades, Iris Mayo, Alfred D. Roberts, Jeanette Sam, Irene G. Shur, Philip D. Smith, Richard J. Webster.

The Institute for Ethnic Studies (IES) offers transcript recognition and a certificate to any student, regardless of major, who satisfactorily complete 18 semester hours of work in ethnic studies. To earn the certificate and transcript recognition, students must take Sociology 235 (Racial and Ethnic Understanding) and must take at least one ethnic-oriented course in each of the following areas. (The other courses can be taken in any of the areas.)

A. Art, English, humanities, language, literature, philosophy, spanish, or speech and theatre.

B. Economics, geography, history, political science, or a social science interdisciplinary course.

C. Anthropology, education, physical education, sociology, or social welfare.

As soon as possible, students should register their intent to earn this distinction with the director of the Institute for Ethnic Studies (Sykes 206). At the end of each semester, students should report to the director the ethnic-related courses completed during the semester and the courses planned for the following semester. An updated list of courses approved for credit is available each semester, before the advisement and scheduling period from the Institute for Eth-

nic Studies. Students can use an approved ethnic-related course towards the completion of the Certificate of Ethnic Studies at the same time it is being used to fulfill their major, minor or elective requirements. Up to six hours of transfer credit from other colleges in ethnic-related courses can, with the approval of the director of the Institute for Ethnic Studies, be used to partially fulfill the requirements for the Certificate of Ethnic Studies.

Eighteen credit hours of ethnic studies core courses lead to a Certificate of Ethnic Studies. Also available are three options to students interested in specific areas of ethnic studies. These options are:

- Afro-American Studies leading to a Certificate of Afro-American Studies.
- Hispanic-American Studies leading to a Certificate of Hispanic-American Studies.
- Jewish-American Studies leading to a Certificate of Jewish-American Studies.

For each option presently offered there are in addition to the relevant ethnic studies core courses, certain cognate courses. These cognate courses do not necessarily deal directly with American ethnic group life but give an added dimension of social and historical background.

In both the ethnic studies, and the optional programs, students must complete 18 credit hours and, as described above, at least one course must be in category A, B, and C. Please note that students working on the Certificate of Afro-American Studies must take History 373 (Afro-American History) and either Literature 202 or 203 (Afro-American Literature); students working on a Certificate of Hispanic-American Studies must take Anthropology 120 (Cultures of Ethnic Peoples in America); and students working on a Certificate of Jewish-American Studies must take History 145 (The Jew in History) and Literature 304 (American-Jewish Novel).

In order to maintain an active registration in the ethnic studies and the related options, students must attend a group advisement session each semester and two ethnically related events — speakers, musical programs, art shows, theatre productions, films, etc. —during the semester.

FOR ADVISEMENT IN ETHNIC STUDIES, CONTACT PROFESSOR ANDREW DINNIMAN, SYKES 206.

COURSES LEADING TO A CERTIFICATE OF ETHNIC STUDIES

—ETHNIC STUDIES CORE COURSES—

Group A

ART 404 Ethnic-American Art
ENG 339 History and Dialects of American English
ENG 340 Sociolinguistic Aspects of English
LIT 202 Afro-American Literature I
LIT 203 Afro-American Literature II
LIT 301 Folklore in America
LIT 303 Introduction to Multi-Ethnic American Literature
LIT 304 American-Jewish Novel
LIT 308 American Women Writers (Dr. Alice Markow's sections)
MUS 121 Fine Arts Music (Dr. Irving Cohen's sections)
MUS 125 Perspectives in Jazz
MUS 126 Folk and Traditional Music of the Western World
MUS 427 African and Afro-American Music
SPC 409 Intercultural Communication

Group B

ECO 349 Economics of Poverty
ECO 350 Urban Economics

HIS 145 The Jew in History
HIS 161 Violence in America
HIS 163 American Minorities
HIS 364 U.S. Urban History
HIS 370 American Indians
HIS 371 Africans in the New World
HIS 372 Topics in Afro-American History
HIS 373 Afro-American History
PSC 252 Civil Liberties and Civil Rights
SSC 201 The American Indian and the Frontier
SSC 480 Ethnic Culture Workshop

Group C
ANT 120 Cultures of Ethnic Groups in America
ANT 140 Folklore in Society
ANT 320 The American Indian
ANT 321 The American Indian Today
EDU 360 The Disadvantaged Child
EDU 361 Teaching in Urban Schools
PED 141 Social, Folk, Square Dance
PED 342 Advanced Folk Dance
SWO 325 Race Relations and Social Work Practice
SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology

COURSES LEADING TO A CERTIFICATE IN AFRO-AMERICAN STUDIES

In fulfilling the Afro-American Studies Option, the student may select from the following ethnic core courses:

Group A
ART 404 Ethnic-American Art
ENG 339 History and Dialects of American English
ENG 340 Sociolinguistic Aspects of English
LIT 202 Afro-American Literature I
LIT 203 Afro-American Literature II
LIT 301 Folklore in America
LIT 303 Introduction to Multi-Ethnic American Literature
MUS 125 Perspective in Jazz
MUS 427 African and Afro-American Music
SPC 409 Intercultural Communication

Group B
ECO 349 Economics of Poverty
ECO 350 Urban Economics
HIS 161 Violence in America
HIS 163 American Minorities
HIS 364 U.S. Urban History
HIS 371 Africans in the New World
HIS 372 Topics in Afro-American History
HIS 373 Afro-American History
PSC 252 Civil Liberties and Civil Rights
SSC 480 Ethnic Cultures Workshop

Group C
ANT 120 Cultures of Ethnic Groups in America
EDU 360 The Disadvantaged Child
EDU 361 Teaching in Urban Schools

SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology
SWO 325 Race Relations and Social Work Practice

In addition, the following cognate courses may be taken only as part of the Afro-American Studies Option:

Group A
LAN 191-2 African Languages (up to 6 credits)

Group B
HIS 140 Emerging Nations (Africa)
HIS 311 History of Africa to 1800
HIS 312 History of Subsaharan Africa Since 1800
PSC 348 African Culture and Politics

Group C
ANT 326 Cultures and Peoples of Subsaharan Africa

COURSES LEADING TO A CERTIFICATE IN HISPANIC-AMERICAN STUDIES

In fulfilling the Hispanic-American Studies Option, the student may select from the following ethnic core courses:

Group A
ART 404 Ethnic-American Art
ENG 339 History and Dialects of American English
ENG 340 Sociolinguistic Aspects of English
LIT 303 Introduction to Multi-Ethnic American Literature
SPC 409 Intercultural Communication

Group B
ECO 349 Economics of Poverty
ECO 350 Urban Economics
EDU 360 The Disadvantaged Child
EDU 361 Teaching in Urban Schools
HIS 161 Violence in America
HIS 163 American Minorities
HIS 364 U.S. Urban History
PSC 201 Civil Liberties and Civil Rights
SSC 480 Ethnic Cultures Workshop (Permission of the instructor required)

Group C
ANT 120 Cultures of Ethnic Groups in America
SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology
SWO 325 Race Relations and Social Work Practice

In addition the following cognate courses may be taken as part of the Hispanic-American Studies Option:

Group A
ART 411 Latin-American Art
LAN 305 Introduction to Bilingual-Bicultural Education
SPA 309 Spanish-American Literature
SPA 321 Civilization of Spanish America
SPA 411 Seminar in Spanish (when applicable)

Group B
GEO 302 Latin America
HIS 315 History of Latin America to 1825
HIS 316 History of Latin America since 1825
PSC 340 Latin-American Culture and Politics

COURSES LEADING TO A CERTIFICATE IN JEWISH-AMERICAN STUDIES

In fulfilling the Jewish-American Studies Option, the student may select from the following ethnic core courses:

Group A
ART 404 Ethnic-American Art
LIT 303 Introduction to Multi-Ethnic American Literature
LIT 304 American-Jewish Novel
SPC 409 Intercultural Communication

Group B
HIS 145 The Jew in History
HIS 161 Violence in America
HIS 163 American Minorities
HIS 164 U.S. Urban History
PSC 252 Civil Liberties and Civil Rights
SSC 480 Ethnic Cultures Workshop (Permission of instructor required)

Group C
ANT 120 Cultures of Ethnic Groups in America
SOC 235 Racial and Ethnic Understanding
SOC 335 Racial and Cultural Minorities
SOC 342 Urban Sociology

In addition the following cognate courses may be taken as part of the Jewish-American Studies Option:

Group A
LAN 191-194 Hebrew (up to 6 credits)
PHI 102 Introduction to Religious Studies
PHI 463 History of Hebrew Thought

Group B
HIS 140 Emerging Nations (Near East)
HIS 309 History of the Middle East
HIS 310 The Arab and the Jew

COURSE DESCRIPTION

SSC 480 Ethnic Cultures Workshop (3) This workshop considers the history, traditions, customs and contributions to American life of various ethnic groups. The lectures and special programs are designed to increase the students' knowledge of the multicultural nature of American society today. Projects, specifically tailored to the students individual needs, are directed by a faculty member of the Ethnic Studies Institute of West Chester State College.

Foreign Languages

Ronald L. Gougher
Chairperson
Alfred Roberts
Assistant Chairperson

PROFESSORS: Frieman, Gutwirth, Lombardi, Roberts, Smith
ASSOCIATE PROFESSORS: Escorcia, Glumac, Gougher, Kuhlmann, Kulaski, Lipscomb, Schneider
ASSISTANT PROFESSORS: Braidotti, Eisenstadt, Garcia-Barrio (Part-time), Greene, Peters, Reiss
INSTRUCTORS: Brown, Rosso (Part-time)

BACHELOR OF ARTS—FOREIGN LANGUAGES

French
German
Latin
Russian
Spanish

The program in foreign languages is intended to provide an advanced educational program for the student interested in the most human aspect of the humanities, language. The program provides a flexible basis for a wide variety of vocations involving bilingual skills and cross-cultural understanding. These include government, commerce, and industry as well as publishing and social services. It also serves as a preparation for graduate studies leading to advanced degrees. The major should be planned with the help of the faculty advisor.

REQUIREMENTS FOR BACHELOR OF ARTS IN FOREIGN LANGUAGES:

1. General Requirments, see page 70 — 44 semester hours
2. Arts and Letters Core, see page 72 — 15 semester hours
3. Foreign Language Concentration — 33 semester hours
4. Two Cognate Courses:
   A. Linguistics 230 — 3 semester hours
   B. History of Language Area — 3 semester hours
5. Demonstration of proficiency in a second language through the intermediate II level

Depending on his second language proficiency, the student has from 27 to 39 elective hours. He may choose to apply some of these to additional advnaced courses in his major area or to continue second or third language study.

For all foreign language majors some study abroad is desirable, indeed almost indispensable.

FRENCH-CONCENTRATION REQUIREMENTS (33 s.h.)
FRE 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional courses to complete the 33 s.h. under advisement.

GERMAN-CONCENTRATION REQUIREMENTS (33 s.h.)
GER 101-102*, 201-202, 203-204, 205-206, 207-208, 365.
Additional courses to complete the 33 s.h. under advisement.

LATIN-CONCENTRATION REQUIREMENTS (33 s.h.)
LAT 101-102*, 201, 202, 303, 406.
Additional courses to complete the 33 s.h. under advisement.

RUSSIAN-CONCENTRATION REQUIREMENTS (33 s.h.)
RUS 101-102*, 201-202, 203, 205-206, 207-208, 305-306, 365, 401.
Additional courses to complete the 33 s h. under advisement.

SPANISH-CONCENTRATION REQUIREMENTS (33 s.h.)
SPA 101-102*, 201-202, 203-204, 207-208, 320-321, 365; Two of the following:
SPA 305, 306, 307, 308, 309.
Additional courses to complete the 33 s.h. under advisement.

*Foreign language majors receive no credit towards graduation for 101 and/or 102 in their majors If 101 and/or 102 in another language are taken as free electives, they will be credited towards graduation

BACHELOR OF SCIENCE IN EDUCATION—FOREIGN LANGUAGES

French Russian
German Spanish
Latin

The Instructional I Certificate in a foreign language qualifies the holder to teach his major language in the public schools (kindergarten through 12th grade) of Pennsylvania.

REQUIREMENTS FOR BACHELOR OF SCIENCE IN EDUCATION—FOREIGN LANGUAGES

1	General Requirements, see page 70	44 s.h.
2.	Arts and Letters Core, see page 72, Foreign Language Department advising required	15 s h.
3.	Foreign Language Concentration	33 s.h.
4	Two cognate courses:	
	A. Linguistics 230	3 s.h
	B History of Language Area	3 s.h.
5.	Student must complete professional education sequence of	29 s.h

The students is allowed from 12 to 14 hours of electives, provided by No. 5 of General Requirements and by the Arts and Letters Core, and is advised to use them in areas which will contribute to his profession.

For all foreign language majors some study abroad is desirable, indeed almost indispensable. Students can receive assistance in selecting programs in areas where their language is spoken.

FRENCH-SPECIALIZED PREPARATION (33 s.h.)
FRE 101-102*, 201-202, 203-204, 204-206, 207-208, 365
Additional French courses to complete the 33 s.h.
Students must also complete LAN 301, credited to Professional Education.

GERMAN-SPECIALIZED PREPARATION (33 s.h.)
GER 101-102*, 201-202, 203-204, 205-206, 207-208, 365
Additional German courses to complete the 33 s.h.
Students must also complete LAN 301, credited to Professional Education

LATIN-SPECIALIZED PREPARATION (33 s.h.)
LAT 101-102*, 201, 202, 303, 406.
Additional Latin courses to complete the 33 s h
Students must also complete *LAN 301, credited to Professional Education

RUSSIAN-SPECIALIZED PREPARATION (33 s.h.)
RUS 101-102*, 201-202, 203, 205-206, 207-208, 365, 401
Additional Russian courses to complete the 33 s h.

SPANISH-SPECIALIZED PREPARATION (33 s.h.)
SPA 101-102*, 201-202, 203, 204, 207-208, 320-321, 365; Two of the following:
SPA 305, 306, 308, 309.
Additional Spanish courses to complete the 33 s h.
Students must also complete LAN 301, credited to Professional Education.

*Foreign language majors receive no credit toward graduation or certification for 101 and/or 102 in their majors If 101 and/or 102 in another language are taken as free electives, they will be credited towards graduation

GREEK, ITALIAN, PORTUGUESE
The following courses in Greek, Italian and Portuguese may be offered, but no major field is available.

GREEK—CLASSICAL AND NEW TESTAMENT
Elementary Greek I-II (GRE 101-102) and Intermediate Greek I-II (GRE 201-202).

ITALIAN
Elementary Italian I-II (ITA 101-102), Intermediate Italian I-II (ITA 201-202), Introduction to Dante (ITA 301), and High Points in Italian Literature (ITA 302).

PORTUGUESE
Elementary Portuguese I-II (POR 101-102) and Intermediate Portuguese I-II (POR 201-202).

ADDITIONAL LANGUAGES
Selected critical or uncommonly taught languages such as Chinese, Japanese, Polish, Serbo-Croatian, Modern Greek, Modern Hebrew, (LAN 191-192-193-194).

THE JUNIOR YEAR ABROAD PROGRAM

The following courses in French are offered at the University of Montpellier, France, under the Junior Year Abroad Program sponsored by West Chester State College. The program is designed for persons interested in France in order to give them a firsthand acquaintance with French life and enable them to achieve an active command of the language.

The program is open to any student enrolled in a college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he is a student of West Chester State College and will receive a minimum of 30 credits for a full two semesters of college work after successful completion of the year-abroad program of studies. Each course runs for two semesters and is conducted entirely in French by French professors. Other types of programs can be arranged for non-language majors.

COURSE OFFERINGS
Advanced Grammar and Composition (FRE 361-62)
Advanced French Conversation (FRE 363-64)
Phonetics and Translation (FRE 365-66)
Contemporary French Civilization (FRE 367-68)
Literary Studies (FRE 369-70)

COURSE DESCRIPTIONS

FRENCH
Symbol: FRE

101-102 Elementary French I-II (3) (3) Fundamentals of French grammar, syntax, and pronunciation. Introduction to French culture through easy reading texts. The audio-lingual method is employed at all times. Work in the language laboratory required

200 Intermediate Research (1) Special studies in French for studio art majors. Approval of department required.

201-202 Intermediate French I—II (3) (3) Intensive review of grammar and syntax. Readings in French literature as a basis for class discussion in French and practice in composition. Language laboratory drill for remedial work only. PREREQ: FRE 102 or equivalent.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203-204 Advanced French Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. PREREQ: FRE 202 or equivalent. Work in the language laboratory required.

205-206 French Civilization I-II (3) (3) France's political and educational systems, her economic and religious institutions, and her folkways. The arts in France today. PREREQ: FRE 201 or equivalent

207-208 Advanced Oral French I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: FRE 203 or equivalent.

210 French for Business (1) Study of the language and vocabulary of business, trade, and industry in French. Intended for those interested in careers in business and industry. PREREQ: French 201 or equivalent.

211 Scientific French (1) Language and vocabulary of science in French. Techniques of translating scientific texts from French to English. PREREQ: FRE 201 or equivalent.

212 French for Travelers (1) Study of the language of travel along with a comparison of French and American customs and way of life in general.

365 French Phonetics (3) Description and practice in the sounds of the French language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230

401 French Literature of the 18th Century (3) The "philosophes" of the 18th century, emphasizing the works of Voltaire, Rousseau, Montesquieu, and Diderot. PREREQ: FRE 206.

402 French Lyric Poetry (3) Development of French lyric forms; French versification, study of selected poets, using "explication de textes."

403 French Literature of the 17th Century (3) 17th century prose; lyric and narrative poetry; the concept of classicism.

404 French Classical Drama (3) Corneille, Racine, and Moliere. PREREQ: FRE 205.

405 French Literature of the Middle Ages and Renaissance (3) Survey of selected readings in Modern French translation from Old French literature and from such major figures as Villon, Rabelais, the Pleiade poets, and Montaigne.

406 Modern French Theater (3) Study of 20th century theatrical forms, extending from the end of World War I to the present.

407 19th Century French Novel (3) Development of the French novel from the pre-Romantic period through the Naturalistic writers

408 20th Century Novel (3) The French novel of the century, from Proust and Gide to the "roman nouveau."

410 Independent Studies in French Language and Literature (3) Special topics for advanced students only. Admission by permission of instructor.

411 Seminar in French (3) Independent study and research for upper division students. Topics announced annually by the French faculty. PREREQ: permission of instructor

412 Seminar in French (3) Independent study and research for upper division students. Topics announced annually by the French faculty. PREREQ: permission of instructor.

FRENCH JUNIOR YEAR ABROAD PROGRAM

361-62 Advanced Grammar and Composition (6)
363-64 Advanced French Conversation (6)
365-66 Phonetics and Translation (6)
367-68 Contemporary French Civilization (6)
369-70 Literary Studies (6)

GERMAN

Symbol: GER

101-102 Elementary German I-II (3) (3) Fundamentals of German grammer, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio- lingual method is employed, and language laboratory drill is required.

200 Intermediate Research (1) Special studies in German for studio art majors. Approval of department required.

201-202 Intermediate German I-II (3) (3) Review of grammar and syntax. Readings in German literature as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. PREREQ: GER 102 or equivalent.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203-204 Advanced German Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on correct usage. PREREQ: GER 202 or equivalent.

205 Survey of German Literature I (3) German literature from its earliest beginnings to 1800. PREREQ: GER 202 or equivalent.

206 Survey of German Literature II (3) German literature from 1800 to the present. PREREQ: GER 202 or equivalent.

207-208 Advanced Oral German I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: GER 203 or equivalent.

210 German for Business (1) Intensive practice in writing business correspondence, job applications, discussions of business practices in Germany.

211 German for Science (1) Study of basic vocabulary for reading documents related to various scientific fields. Readings in individual fields of endeavor.

212 German for Travel (1) Study of major cities and cultural sites in Germany. Concentration on contemporary information and travel.

305 German Civilization (3) The evolution of Germany's social, political, and economic institutions. An analysis of the major contributions of German civilization to Western culture PREREQ: GER 202 or equivalent.

365 German Phonetics (3) Description and practice in the sounds of the German language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 The Age of Goethe (3) German literary doctrines and masterpieces of the periods of Enlightenment, Storm and Stress, and Classicism. PREREQ: GER 202 or equivalent.

402 Contemporary German Literature (3) Works of the principal German writers of the 20th century. PREREQ: GER 202 or equivalent

403 The German Short Story (3) The German short story from Romanticism to the present. PREREQ: GER 202 or equivalent.

404 Goethe (3) Important works of Goethe; his background and literary development. PREREQ: GER 205.

405 Scientific German (3) Review of syntax, readings, and translation in general science and basic technical fields. PREREQ: GER 102 or equivalent.

406 German Literature of the 19th Century (3) German realism of the 19th Century. PREREQ. GER 206 or equivalent.

407 German Lyric Poetry (3) Modern German poetry of pre and post World War II. PREREQ. GER 206 or equivalent.

408 Modern German Drama (3) Major dramatists of the 20th Century. PREREQ: GER 206 or equivalent

409 German Literature of the Romantic Period (3) PREREQ: GER 206 or equivalent.

410 Independent Studies in German Language and Literature (3) Special topics for advanced students only; admission by permission of instructor

411 Seminar in German (3) Independent study and research for upper division students. Topics announced annually by the German faculty. PREREQ: permission of instructor.

412 Seminar in German (3) Independent study and research for upper division students. Topic announced annually by the German faculty. PREREQ. permission of instructor.

GREEK

Symbol: GRE

101 Elementary Greek I (3) For students who have had no previous Greek. Forms, syntax, and idioms of **Koine** Greek.

102 Elementary Greek II (3) A continuation of Greek 101. Readings in New Testament and Septuagint Greek. Introduction to Attic Greek.

201 Intermediate Greek I (3) Review of the Attic Greek and readings in Socratic dialogues of Plato. PREREQ GRE 102.

202 Intermediate Greek II (3) Introduction to Greek tragedy. Sophocles' **Antigone** and Euripides' **Medea** are read and analyzed. PREREQ. GRE 201.

301 Greek Reading I-Homer (3) Introduction to Homeric prosody and grammar. Analysis of selected portions of the *Iliad.*

302 Greek Reading II Greek Historians (3) Introduction to Greek historiography. Analysis of selected readings in the historians.

ITALIAN

Symbol: ITA

101-102 Elementary Italian I-II (3) (3) Intensive drill, both in class and the language laboratory, with pronounciation, intonation, and basic linguistic patterns. Introduction to Italian culture through basic dialogues and easy reading texts.

201-202 Intermediate Italian I-II (3) (3) Review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill, PREREQ: ITA 102 or equivalent.

301 Introduction to Dante (3) This course is taught in English and designed for those desirous of further study in Italian literature, as well as students in related fields: other Romance languages, English literature and other areas.

302 High Points in Italian Literature (3) The most important Italian writers from the Renaissance to the present day, with emphasis on the modern period.

303 Italian Culture and Civilization (3) An introduction to the philosophical and artistic contributions of the Italian world to Western Civilization.

304 Advanced Oral Italian (3) Theoretical and practical approach to phonology, phonetics, and basic self-expression in the Italian language.

LATIN

Symbol: LAT

101-102 Elementary Latin I-II (3) (3) Forms, syntax, and idioms of classical Latin. Selected readings.

201 Cicero (3) Selections from the orations, letters, and essays. PREREQ: LAT 101, 102, or two years of secondary school Latin.

202 Vergil (3) Reading and analysis of celebrated portions of the **Aeneid**. The nature of Latin epic poetry. PREREQ: LAT 201 or three years of secondary school Latin.

Note: LAT 202 or four years of secondary school Latin is prerequisite to all following courses in Latin.

301 Teaching of Latin (3) Introduction to the problems, methods, and materials in the teaching of Latin.

302 The Latin Lyric Poets (3) Latin lyric poetry through readings in Catullus and the Odes and Epodes of Horace. Practice in the composition of lyric poetry.

303 Advanced Latin Prose Compositon (3) Required of Latin majors; open to other students accepted by the instructor. The complex syntactical structures of Latin of classical style. Translations of English into classical Latin.

304 The Latin Elegiac Poets (3) Latin elegiac poetry through readings, in Ovid, Tibullus, Lygdamus, Sulpicia, and Propertius. Practice in the composition of the elegiac poetry.

305 Reading Course in Latin (3) Open to Latin majors only. Area and content to be determined by student's needs.

306 Roman Historians (3) Introduction to Roman historiography. Reading in Livy, Sallust, and Tacitus.

401 Roman Drama (3) Origins and development of Roman drama. Selected plays of Plautus, Terence, and Seneca

402 Roman Philosophy (3) Introduction to Greek and Roman philosophy. Readings in Cicero, "Tusculan Disputations," and Lucretius, "De Rerum Natura."

403 Roman Satire (3) Origins and development of Roman satire. Readings in Horace, Persius, and Juvenal.

404 The Latin Novel (3) Readings in Petronius, "Satyricon," and Apuleius, "The Golden Ass." Lectures and discussions of the emergence of the novel as a literary form.

405 Medieval Latin (3) Prose and poetry from the 4th to the 17th centuries.

406 Latin Tutorial Course (3) Required of majors in Latin or Classics; open to other students accepted by the instructor. Introduction to the history of the alphabet; principles of historical and comparative linguistics, especially as applied to Greek and Latin; and history of the Latin language as seen in ancient authors and inscriptions.

410 Independent Studies in Latin Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

411 Seminar in Latin (3) Independent study and research for upper division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.

412 Seminar in Latin (3) Independent study and research for upper division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.

PORTUGUESE

Symbol: POR

101-102 Elementary Portuguese I-II (3) (3) Fundamentals of Portuguese grammar, syntax, and pronounciation. Introduction to Brazilian heritage and culture through graded reading selections.

201-202 Intermediate Portuguese I-II (3) (3) Review and continuation of basic Portuguese with emphasis on vocabulary expansion and cultural insights through increased readings materials. Introduction to selected Portuguese and Brazilian authors. PREREQ: POR 102.

RUSSIAN

Symbol: RUS

101-102 Elementary Russian I-II (3) (3) Fundamentals of Russian grammar, syntax, and pronunciation. Extensive drill in the language laboratory required

200 Intermediate Research (1) Special studies in Russian for studio art majors. Approval of department required.

201-202 Intermediate Russian I-II (3) (3) Grammar review with readings in Russian literature as a basis for class discussion in Russian and practice in composition. Language laboratory drill recommended for those needing further work in pronunciation and intonation. PREREQ: RUS 102.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203 Advanced Russian Grammar and Composition (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on current usage. PREREQ: RUS 202 or equivalent.

205-206 Advanced Readings in Russian Literature I-II (3) (3) Works of Pushkin, Lermontov, Turgenev, and Gorki are read and analyzed. PREREQ: RUS 202 or equivalent

207-208 Advanced Oral Russian I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. PREREQ: RUS 203 or equivalent.

303-304 Scientific Russian I-II (3) (3) Review of syntax; reading and translation in general science and basic technical fields. PREREQ: RUS 202 or equivalent.

305-306 Russian Civilization I-II (3) (3) A study of the cultural, philosophical, religious, and artistic contributions of Russia. PREREQ: RUS 202 or equivalent.

365 Russian Phonetics (3) Description and practice in the sounds of the Russian language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

401 The Russian Novel (3) The Russian novel and literary trends of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent

402 The Russian Drama (3) Works of the major dramatists of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent

403 Russian Poetry of the 10th Century (3) A study of the principal Russian poets of the 20th century. PREREQ: RUS 205 or equivalent.

410 Independent Studies in Russian Language and Literature (3) Special topics for advanced students only; admission by permission of instructor

411 Seminar in Russian (3) Independent study and research for upper division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor.

412 Seminar in Russian (3) Independent study and research for upper division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor

SPANISH

Symbol: SPA

101-102 Elementary Spanish I-II (3) (3) Fundamentals of Spanish grammar, syntax, and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts

200 Intermediate Research (1) Special studies in Spanish for studio art majors. Approval of department required

201-202 Intermediate Spanish I-II (3) (3) Review of Spanish grammar and syntax. Readings

in Spanish literature as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. PREREQ: SPA 102 or equivalent.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

203 Advanced Spanish Grammar (3) Review and mastery of Spanish grammar with emphasis on common grammatical problems, syntactic structures, and idiomatic expression. PREREQ: SPA 202 or equivalent.

204 Advanced Spanish Composition (3) Written expression in Spanish on a more advanced level. Special attention to stylistics. An application of SPA 203. PREREQ: SPA 203.

207-208 Advanced Oral Spanish I-II (3) (3) Intensive drill in oral usage of the Spanish language to develop proficiency in listening comprehension and speaking. PREREQ: SPA 203 or equivalent.

305 Spanish Medieval Literature (3) Spanish literature from its earliest beginning to the end of the 14th century. PREREQ: SPA 203 or equivalent.

306 Spanish Literature of the Renaissance (3) Spanish literature from the Celestina through the 17th century. Emphasis on the Golden Age. PREREQ: SPA 203 or equivalent.

307 Spanish Literature of the 18th and 19th Centuries (3) Spanish literature from the beginning of the 18th century to the end of the 19th excluding the Generation of 1898. PREREQ: SPA 203 or equivalent.

308 Spanish Literature of the 20th Century (3) The literature and thought of this century in Spanish letters. PREREQ: SPA 203 or equivalent.

309 Spanish American Literature (3) Spanish American literature through major authors and works. Perspective on the different literatures. PREREQ: SPA 203 or equivalent.

320 Civilization of Spain (3) Major contributions of Spain. Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic world. PREREQ: SPA 202 or equivalent.

321 Civilization of Spanish America (3) Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic American World. PREREQ: SPA 202 or equivalent.

365 Spanish Phonetics (3) Description and practice in the sounds of the Spanish language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

400 An Introduction to Cervantes and Don Quixote (3) Reading the full text of Don Quixote important chapters and topics will be analyzed. Special emphasis given to problems of translation.

401 Spanish "Comedia" of the Golden Age (3) Spanish National Theater. Themes and traditions in the "Comedia." PREREQ: SPA 306 or equivalent.

402 Cervantes (3) Study of "Don Quijote." Cervantes' contribution to literature. An insight into his works. PREREQ: SPA 306 or equivalent.

403 Spanish Lyric Poetry (3) Analysis of Spanish poetic expression and poetic form. Reading of the main lyric poets of Spanish literature. PREREQ: SPA 305 or 306 or 307 or 308 or equivalent.

404 The Picaresque Novel (3) The picaresque tradition in Spain. The literary "picaro." The contributions of Spain to other literatures. PREREQ: SPA 306 or equivalent.

405 Modern Spanish Theater (3) Contemporary Spanish theater from the late 19th century to the present. PREREQ: SPA 307 or 308 or equivalent.

406 The Generation of 1898 (3) An evaluation of the Generation of 1898; its role in the literature, history, and philosophy of Spain. PREREQ: SPA 307 or 308 or equivalent.

410 Independent Studies in Spanish Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

414 The Black in Spanish American Literature (3) For undergraduates who are interested in the characterization of blacks in Spanish American Literature and the political and social context of their literary portrayal

456 Seminar in Spanish (3) Independent study and research for upper division students Topics announced annually by the Spanish faculty PREREQ: permission of instructor

457 Seminar in Spanish (3) Independent study and research for upper division students Topics announced annually by the Spanish faculty PREREQ: permission of instructor

ADDITIONAL LANGUAGES

LAN 191-192 Critical Language I-II (3) (3) Self-instructional program in one of the seldom taught languages. Chinese, Japanese, Polish, Serbo-Croatian, Modern Greek, Modern Hebrew, Portuguese, etc The student works with an integrated text and tape program and a tutor By permission of Department of Foreign Languages

LAN 193-194 Critical Language III-IV (3) (3) Continuation of LAN 191-192

COURSES COMMON TO ALL LANGUAGES

LAN 250 The Art of Translation (3) Techniques of translating literary, journalistic, and technical and scientific texts PREREQ 202 or equivalent in a modern language.

LAN 301 Teaching of Modern Languages: K-12 (5) Problems, methods, and materials of teaching second languages at all levels Observation and participation in second-language classrooms PREREQ completion of language courses through the advanced level and LIN 230.

LAN 303 Second Languages in the Elementary School (3) Techniques and materials used in teaching second languages in the elementary school Practice in the application of these techniques and observation of foreign language classes PREREQ completion of intermediate level in the chosen foreign language.

LAN 305 Introduction to Bilingual/Bicultural Education (3) Introduction to the history, philosophy, current status, and future directions of Bilingual/Bicultural education Survey of materials, techniques, instructional processes, and instructional patterns Overview of testing, placement, and pupil evaluation. PREREQ. intermediate level proficiency in a second language and LIN 250 or equivalent

LIN 411-412 Seminar in Linguistics (3) Specialized studies in linguistics Topics announced annually PREREQ Lin 230 or at least junior standing

LIN 230 (also ENG 230) Introduction to Linguistics (3) See ENG 230

LIN 250 Psycholinguistics (3) Introduction to the study of relationships between language, generative models, communication theory, and learning theory Major emphasis on natural language development and bilingualism

LIN 330 (also PHI 330) Introduction to Meaning (3) See PHI 330

LIN 360 (also PHI 360) Philosophy of Language (3) See PHI 360

LIN 380 Language and Culture (3) Language as an aspect of culture; linguistic-perceptual-cognitive categories, social and psychological aspects of language. PREREQ Lin 230 or permission of instructor

LIN 415 (also SPC 415) General Semantics (3) See SPC 415

Geography and Planning

Charles W. Grassel,
Chairperson

PROFESSOR: Langdon
ASSOCIATE PROFESSORS: Bielski, Grassel, Rampon, Tachovsky
ASSISTANT PROFESSOR: Rengert

The basic objectives of study in geography at West Chester are three-fold: (1) to serve the general education needs of all students, (2) to provide specialized preparation needed for either teaching of geography, or for working in geography and planning related fields, and (3) to meet the particular needs of students in the arts and sciences. The department attempts to assist students in comprehending the broad scope of man's physical/cultural environment and relationships to human situations and problems. As a discipline, geography provides a way of developing skills and of organizing knowledge from various disciplines, and enables students to examine the integrated whole of a people with reference to habitat and interspatial relationships.

BACHELOR OF ARTS—GEOGRAPHY

1.	General Requirements, see page 70	44 s.h.
2.	Foreign Language Requirement	6 s.h.
3.	Social Science Core, see page 72	21 s.h.
4.	Geography Core Requirements Required: GEO 102, 103, 212, 225, 400 (16 s.h.) Geography electives (under advisement) (17 s.h.)	33 s.h.
5.	Cognate Courses Courses (under advisement) which are specifically related to identified career aspirations, and chosen outside General Requirements, or Social Science Core, or Geography Core.	12 s.h.
6.	Free Electives	12 s.h.

BACHELOR OF SCIENCE IN EDUCATION

COMPREHENSIVE SOCIAL STUDIES: GEOGRAPHY (CONCENTRATION)

Students interested in teaching secondary school social studies may pursue a concentration in geography while earning state certification and the Bachelor of Science degree. See description under COMPREHENSIVE SOCIAL STUDIES B.S. IN EDUCATION, Page 115

COURSE DESCRIPTIONS

Symbol: GEO

101 World Geography (3) The scope of geography and its special place in the cultural spectrum. Human society is examined in a terrestrial frame of spatial, environmental and resource factors. Emphasis is placed on the development of skills in the use of the "tools" of geography.

102 Physical Geography (3) The study of basic principles of physical geography and of relationships between components of the total earth environment.

103 Human Geography (3) An inquiry into the theoretical and applied approaches to the study of human spatial behavior and the distribution of social problems.

200 Patterns of World Cultures (3) An examination of selected, non-western areas, representing different stages of development, in the contemporaneous world. Emphasis is placed on cultural adaptation, innovation and achievement of human occupants of these areas.

205 Geographic Influences in American History (3) Geographic characteristics which bore prominently on the discovery and colonization of America, and on the progressive development of the United States up to the 20th century

210 Population Problems (3) Regional variations in the distribution of human populations. Numbers, past and present, in relation to demographic characteristics and migrations of populations.

212 Urban Growth Dynamics Analysis of patterns, processes, and consequences of urban growth and development Theory of, systems, size, spacing, and functions of cities

214 Regional Planning (3) The regional method of analysis of the problems of urban and regional planning. Emphasis is placed on systems of housing, recreation transportation, industry, and commerce

216 Planning for Public Services (3) A study of the quality of individual life. Analysis of geographic variation in social well being, problems of social system monitoring, and social indicators used in planning

220 Location of Economic Activity (3) Introduction to basic theoretical models of agricultural, industrial and settlement grography. Emphasis is placed on fundamental methods of geographic analysis.

225 Map and Aerial Photo Interpretation (4) A laboratory course designed to develop skills in and promote an understanding of maps and aerial photos. Offered in fall

230 Conservation of Natural Resources (3) An inquiry into the type, size and distribution of natural resources, and into the problems of resource management. Emphasis is placed on the United States.

232 Environmental Crises (3) The nature and dimensions of environmental problems with emphasis on endangered life-support systems. Aspects of natural and social environment systems, and their mutual interrelationships.

234 Environmental Perception (3) An interdisciplinary inquiry into the mechanics and meaning of human encounters with varied types and elements of environment

236 Climatology (3) Climatic variations on the earth, and their classification into regional types. Relationships of plants, soils, and cultures to types of climate.

238 Geomorphology (3) Constructional and degradational forces which have shaped present landforms, and are constantly reshaping and modifying landforms. Interpretation of geologic and topograhic maps; field studies.

300 Pennsylvania (3) A regional study of Pennsylvania; cultural and economic responses to environmental factors. Analysis of population, urbanization, landforms, resources, agriculture and industry in the commonwealth.

301 Anglo America (3) A regional study of the United States and Canada; human adjustment to and interaction with physical environment Emphasis is placed on relations between the two nations.

302 Latin America (3) A regional study of Middle and South America; hispanic historical and present-day adjustments to and interaction with physical environment.

303 Europe (3) A regional study of Europe, excluding the U.S.S.R. and its satellites, includes a macro-study of the contient, and sequential micro-studies of culturalized landscapes.

304 The Soviet Union (3) A regional study of European and Asiatic U.S.S.R.; analysis of geographic factors in relation to strengths and weaknesses as a major world power.

311-315 Geography Area Field Study (3 cr. for each study) Field courses involving travel and study in the United States and selected foreign countries. Costs vary; with each course. PREREQ: permission of department chairperson. Offered summer only.

320 Land Use Planning (3) An inquiry into the development of comprehensive studies by governmental and private agencies, emphasizing the development of skills in problem identification and resolution.

322 Land Development Controls (3) An insight into the why and how of land development, emphasizing the role of local government in zoning and subdivision regulation.

324 Data Systems for Planning (3) An inquiry into primary data sources needed in the planning process, emphasizing appropriate applications and actual limitations of data.

326 Geographical Analysis (3) Applications of basic statistical techniques to problems of spatial significance, emphasizing the adaptation of technique to problem, and the understanding and interpretation of specific analytical methods as applied to real-world situations.

328 Computer Graphics (3) Designed to develop skills in the design and use of analytical and comuter-mapping systems, the course emphasizes the techniques of spatial problem-resolution and display.

400 Senior Seminar in Geography (3) Methods, bibliography, and presentation of research in geography. A research paper is prepared, and must be acceptable as a departmental senior research paper.

401 Cartography (4) A laboratory course to develop proficiency in the design, construction, and appropriate application of maps and map related graphics.

402 Teaching Geography in Secondary Schools (3) Contemporary methods and resources for the formulation, organization, presentation, and evaluation in geographic instruction. Open only to upper-division B.S. majors in geography.

410 Independent Studies in Geography (1-3) Research projects, reports, readings in geography. PREREQ: permission of department chairperson

415 Internship in Geography (15) Practical job experience in applying geographic theory, executing substantive research, and engaging in community service in selected off-campus situations. Open only to upper-division B.A. majors in geography.

Government and Politics

David Eldredge
Chairperson

PROFESSORS: Brady, Harding, Mayo, Milne, Shea
ASSOCIATE PROFESSORS: Burns, Burton, Eldredge, Iacono
ASSISTANT PROFESSORS: Marbach, Sandhu

Three programs are offered:

1. The B.A. degree with a concentration in Public Administration is interdisciplinary and intended to prepare students for a variety of possible alternatives in state, local and national government as well as with private interest groups. The program features internship experiences with participating agencies.

2. The B.A. degree with a general political science concentration is designed for those with interest in understanding their society and the world. It is especially relevant for careers in such fields as pre-law, politics, public relations and journalism.

3. The B.S. in Education is available for the student with a sincere desire to teach in a secondary school system. Graduates are certified to teach any of the social sciences.

Majors in the department must consult the department handbook and their advisor annually for current requirements.

BACHELOR OF ARTS—POLITICAL SCIENCE—PUBLIC ADMINISTRATION

1	General Requirements, see page 70	44 s.h.
2.	Foreign Language Requirements Intermediate Competency Required	0-12 s.h.
3.	Social Science Core, see page 72	21 s.h.
4.	Public Administration Concentration, PAD 364, 356 or 374, 361 or 363, 375, 377, 378 GEO 216, 320, 322	27 s.h.
5.	PAD 412 Internship	6-15 s.h.
6.	A course in each of two of the following areas: Political Theory: 335, 338, 339 Political Behavior 322, 329 International Relations: 217, 313, 314 Comparative Government: 340, 341, 342, 348, 349	6 s.h.
7.	Cognate requirements ENG 230, MATH 121, SPH 230 or SPH 109	3-12 s.h.*
8	Additional Free Electives	0-24 s.h.*

*All cognates except English, and two of the geography courses may be taken as part of General Requirements and/or Social Science core, resulting in available hours for free electives or internship. Students with Intermediate Language Skills may free six more hours.

BACHELOR OF ARTS—POLITICAL SCIENCE—GENERAL

1. General Requirements, see page 70 — 44 s.h.
2. Foreign Language Requirements — 0-12 s.h.
   Intermediate Competency Required
3. Social Science Core, see page 72 — 21 s.h.
4. Political Science Requirements — 30 s.h.
   A. American Government and Politics (PSC 100)
   (credited to Social Science Core)
   B. One course in each of the following six fields:
   International Relations: 217
   Political Behavior: 322, 329
   Political Theory 338, 339
   Comparative Government: 340, 341, 342, 348, 349
   American Government: 252, 350, 354, 355, 356
   Public Administration: 361, 363, 364, 369, 374, 375, 377, 378
   C. Political Science Symposium (PSC 399)
   D. Senior Project (PSC 401)
   E. Two additional political science courses from list approved by department.
5. Cognate requirements. Courses outside the major but considered relevant for majors. — 15 s.h *
6. Free Electives — 12-21 s.h *

*Since some cognate requirements may be met by general requirements, the student may increase free electives available by as much as nine semester hours, conversely B A students may need to devote some hours to foreign language requirements.

BACHELOR OF SCIENCE IN EDUCATION

Comprehensive Social Studies: Government and Politics (concentration)

Students interested in teaching secondary school social studies may pursue a concentration in government and politics while earning state certification and the Bachelor of Science degree. See description under COMPREHENSIVE SOCIAL STUDIES: B.S. IN EDUCATION, Page 215.

A note on course numbering system: 100 level courses are designed for general education use; 200 level are usually to be considered a second course, but may be taken by non-majors for general education when they correspond to special interests; 300 level are of greater difficulty and 390 through 412 usually for upper level majors. The second number indicates general sub-field in the discipline, and the third number is only for identification.

COURSE DESCRIPTIONS

Symbol: PSC

100 American Government and Politics (3) Devoted to understanding how the system works: political action, elections, interest groups, civil liberties, Congress, the presidency and the courts are among the topics considered Seeks to provide a framework in terms of which process and current issues become meaningful. Each semester

121 Introduction to Government and Politics (3) Survey of fundamental concepts in political science. Considers nature of the state, freedom, sovereignty, equality, theories of representation, other areas. Each semester

125 Grass-Roots Politics and the American Voter (3) Understanding the American electorate and the political party system. Culture, ideology, and socio-psychological factors are stressed. Campaign strategy and implementation at the grass-roots level are the central themes. (Not for majors credit.)

130 Contemporary Political Problems (3) A "theme" oriented course with semester's topic announced in advance. Emphasis on in-depth subject area study. (Not for majors credit.)

215 Politics of the Law in Society (3) Nature, functions, limits and sources of the law as an instrument of social and political control and direction. The political and social base and consequence of the development of the law as it applies to the poor, the ecology, property, contracts, torts and the criminally accused.

217 American Foreign Policy (3) Cultural, political, economic, and psychological influences on policy; process of decision making. Special attention to a few policy areas such as relations with allied, underdeveloped, revolutionary or Communist countries. Possible responses to threats of war, population growth, resource shortages, and pollution may be examined.

252 Civil Liberties and Civil Rights (3) A survey of the sources of civil liberties and civil rights in the United States with an inquiry into contemporary problems and their solutions through statutory and constitutional developments.

313 International Politics (3) Politics among nations, including politics carried on through international organizations. Examines power politics, techniques of diplomacy, methods of current international organizations. Special attention to U.S. interests and policies

314 Futuristic World Politics (3) Alternate ways to deal with problems arising from population growth and the new technology; shrinking resources, pollution, the menaced oceans and space, nuclear war. Theories are tested with social science knowledge and possibly some simulation.

322 Public Opinion, Propaganda, and Political Behavior (3) The dynamics of opinion formation and change; the role of public opinion in policy formation; political socialization, survey research and propaganda techniques considered.

329 Judicial Behavior (3) A behavioral approach to the law, with specific reference to conceptual, methodological and ideological considerations. Depending on availability of information, role-playing simulations with students becoming judges and attorneys.

338 Introduction to Political Thought (3) Great political thinkers of Western Civilization from Plato to the present. Historical background of Western thought and its relevance to the present political world.

339 Contemporary Political Thought (3) Consideration of major political thinkers since Marx. Includes writings and political significance of Marcuse, Fromm, Lenin, Trotsky and the Democratic Socialists.

340 Latin American Culture and Politics (3) Comparative analysis of contemporary Latin-American systems. Political cultures, decision-making, ideologies, political processes. Latin-American social systems are examined comprehensively, but Mexico, Brazil, Argentina and Chile are analyzed comparatively.

341 Politics of non-Western Areas (3) Emphasis on the problems of nation-building, political participation, and elite-mass relationships in the less developed nations. Latin American, Asian or African nations. Latin American, Asian or African nations may be stressed as a case study.

342 Government and Politics of Western Europe (3) Primary attention focuses on France, West Germany, and Great Britain; secondary attention on other European systems. Political cultures, popular participation, political parties and formal institutions of government.

348 African Culture and Politics (3) The political nature and practices of individuals, organizations and government of Black Africa are examined in the cultural context of the contemporary independent period

349 Comparative Communism (3) Comparative analysis of the ideological, political, social and economic systems of Communist nations. Concentration is on comparisons between the Soviet Union and Communist China, but other Communists systems are considered.

350 American Constitutional Law (3) The development of the American Constitutional System as reflected in leading decisions of the United States Supreme Court. Emphasis on national powers, federalism, and the Bill of Rights. PREREQ: PSC 100 or consent of instructor

354 American Political Parties (3) Patterns, functions and history of the American political party system at national, state and local levels. Theoretical and empirical studies of political interest groups, public opinion and voting behavior.

355 Congressional politics (3) Deals with the internal and external factors which influence Congressional behavior. Includes the role of constituents, pressure groups, parties, the committee system, rules and the leadership. Relationships to president and court structure and impact of electoral politics also considered. Comparisons with state legislatures.

356 American Public Policy (3) Actual policy; its formation and execution. Policy areas considered vary from semester to semester. May include role playing simulation. PREREQ: PSC 100 or 101 or permission of instructor.

390 Teaching Behavioral Sciences in Secondary Schools (3) Preparation for teaching secondary social studies, especially behavioral sciences and most particularly political science. Focus is on achievement of behavioral objectives based on a knowledge of learning theory applied to curriculum, methods, materials and evaluation. PREREQ: EDP 250.

399 Political Science Symposium (3) Nature of research in political science. Construction of a research design. Extensive reading in an area of political science. Each semester

400 Senior Seminar in Political Science (3) Research in political science. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental senior research paper.

401 Senior Project in Political Science (3) Execution of the research design constructed in PSC 399. Involves completion of major senior paper under supervision of a staff member. Extensive independent effort. PREREQ: PSC 399. Each semester

410 Independent Studies in Political Science (1 to 3) Research projects, reports, readings in political science. Open to seniors only. PREREQ: permission of instructor.

412 Internship in Political Science (3 to 15) Upper level student field placement learning. Short term 3 to 6 hour experiences in political settings under faculty advisement; and 9 to 15 hour placements in state, federal, local governmental/public serving agencies. Learning contracts and faculty advisement create a whole experience from exposure to government administration and political interface. Each semester

PUBLIC ADMINISTRATION

Symbol: PAD

361 State and Local Government (3) Examination of the organization, functions, and politics of state and local government, including analysis of politics in states, counties, cities and towns in urban, suburban and rural areas. Intergovernmental relations in education, transportation and welfare policy are examined.

363 Urban Government (3) Structures and processes of central city and suburban government are considered. Examines patterns and trends in governmental organization and administration as well as sources of conflict in urban decision making, e.g., the urbanization process, race and class antagonism, and city-suburban perspectives.

364 Elements of Public Administration (3) Considers public administration in the United States as a process of implementing public policy. Uses case studies and projects with texts focusing on organizational theory, human behavior and motivation, budgeting, personnel, and administrative responsibility. Each semester

369 Politics of Bureaucracy and Administrative Bahavior (3) In-depth examination of the fourth branch of government. Impact of the administrative apparatus (bureaucracy) on public policy formulation and implementation. Case studies and student projects.

374 Municipal and Administrative Law (3) An in-depth examination of the impact of municipal law and local regulation and its social, economic and political impact. Attention to such areas as zoning.

375 **Government Finance (3)** Policy choices for public sector economic activity. National state and local activities in allocation, distribution, stabilization functions; grants-in-aid; taxation, student projects in revenue studies. PREREQ: PAD 364, ECO 231 or 101.

377 **Government Personnel and Management (3)** Examination of governmental recruitment practices, including current personnel classification and compensation policies, as well as government selection, recruitment, and promotion procedures. Managerial functions of oversight, supervision and motivation are heavily emphasized. Recommended PREREQ: PAD 364

378 **Public Organizations: Theory and Practice (3)** Nature of public organizations such as government agencies, the environment of their operations, relations to public and private organizations, theories of their structure and behaviors, stressing the public setting and political processes which provide their functioning environment

412 **Internship in Public Administration (3 to 15)** Same as PSC 412, but students with public administration concentration must meet PREREQ: PAD 364. Each semester

Health, Physical Education, and Recreation

Ronald B. Woods
Acting Dean

Walter E. Funk
Chairperson, Department of Health

David S. Charters
Chairperson, Department of Physical Education

Richard B. Yoder
Director of Athletics

Joyce R. Countiss,
Assoc. Director of Athletics

Edward C. Bitner,
Coordinator of Recreational Services

Norman A. Cochran,
Coordinator of Elementary Physical Education

Phyllis A. Goetz,
Coordinator of Public Health

John L. DeMillion
Coordinator of School Health

Katherine A. Margerum,
Coordinator of Student Teaching

John N. Trezise,
Course Coordinator of Non-Major Physical Education

Richard B. Yoder,
Coordinator of Safety Education

Roger W. Mustalish
Coordinator of Environmental Health

The School of Health, Physical Education, and Recreation at West Chester has a record of excellence and a long history; West Chester's program of coeducational physical education is one of the oldest in the United States. The first Director of Physical Training, Dr. Clyde Ehinger, was appointed in 1890.

DEGREE PROGRAMS

B.S. in Health and Physical Education
B.S. in Health Education
B.S. in Public Health

The School of Health, Physical Education, and Recreation offers a dual major leading to the Bachelor of Science in Health and Physical Education and a

second program leading to the Bachelor of Science in Health Education. Both programs, upon satisfactory completion, permit the student to attain the Pennsylvania Instructional I Certificate, valid for teaching the specified subject in the elementary and secondary schools of Pennsylvania for three years. In addition, the school offers a Bachelor of Science degree in Public Health which qualifies individuals for employment in the various health and health-related professions.

ADMISSION

Students seeking admission to the School of Health, Physical Education, and Recreation must meet the basic requirements of the college (see Admission to West Chester).

Admission to the Degree Program in Health and Physical Education. Applicants must have participated in both physical education classes and extracurricular athletic programs in secondary school. A preadmission interview conducted by school faculty evaluates the candidate's promise of performance in the program.

Admission to the Degree Programs in Health Education and Public Health. A preadmission interview conducted by Department of Health faculty members evaluates the applicant's personal qualifications for admission.

Transfer Students—see three items pertaining to transfer students under Admission to West Chester.

PROFESSIONAL REQUIREMENTS FOR HEALTH AND PHYSICAL EDUCATION MAJORS

Students in the dual major must purchase uniforms. (See "Additional Costs" in Fees/Expenses.) As a prerequisite for student teaching, students in the dual major must have completed the extracurricular credit requirements of the Department of Physical Education.

FACILITIES

Facilities to support the programs of the school have kept pace with a rapid increase in students and faculty. The new Health and Physical Education Center and field complex, located on south campus, provide the college with one of the nation's outstanding facilities for education and research in health and physical education. Among its notable components are its research facilities, its multipurpose teaching stations, and a one-acre gymnasium divisible into six separate pneumatically sealed gymnasiums. A vast complex of tennis courts and baseball, lacrosse, field hockey, soccer, and football fields is also located on the south campus.

INTERCOLLEGIATE ATHLETIC PROGRAM

West Chester regards athletic activities as an important part of the college experience—indeed, as a facet of education. The underlying purpose of West Chester's athletic program is the development of enduring educational values. To achieve these purposes and to provide opportunities to train those who will later become coaches, the School of Health, Physical Education, and Recreation administers the athletic program, which provides a broad variety of team, individual, and dual sports for men and women students.

To permit participation by as many students as possible the college offers a wide variety of intercollegiate athletics. The men's intercollegiate athletic program includes: baseball, basketball, cross country, football, golf, gymnastics, indoor track, soccer, swimming, tennis, track and field, and wrestling. The women's intercollegiate athletic program includes: badminton, basketball, field hockey, gymnastics, lacrosse, softball, swimming, tennis, track and field, and volleyball. Through participation in the planning, organization, and performance of these sports, leadership capabilities are developed. Schedules are sought which, while in the college's class, measure up to the high athletic traditions and standing of West Chester.

West Chester is a member of the National Collegiate Athletic Association, Association for Intercollegiate Athletics for Women, Intercollegiate Amateur Association of America, Eastern Association for Intercollegiate Athletics for Women, Eastern Collegiate Athletic Conference, East Coast Conference, and Pennsylvania and Philadelphia Associations for Intercollegiate Athletics for women.

West Chester's Health and Physical Education Center and field complex afford excellent facilities and equipment for the college's broad and varied athletic program. Qualified and experienced athletic trainers are an integral part of the intercollegiate program.

Health

Walter E. Funk,
Chairperson

PROFESSORS: Lemcke, Nye
ASSOCIATE PROFESSORS: DeMillion, Fisher, Funk, Goetz, Huffman, Reese, Reed, Steinmetz, Voss
ASSISTANT PROFESSORS: Boyle, Mustalish, Leap
INSTRUCTOR: Hofford

The Department of Health offers programs in the following areas—health education, a preparation to teach kindergarten through grade twelve in schools, public health, a preparation to enter the field of community health through programs and services delivered by private, local, state, and national institutions, and a new program in environmental health designed for students interested in improving health through control of environmental factors such as air, water, food waste, radiation and industrial hygiene.

BACHELOR OF SCIENCE IN HEALTH EDUCATION

1 General Requirements 44 s.h.
Refer to page 70 for a full explanation of the distribution of these requirements. The Department of Health Education recommends that students apply those courses marked with an asterisk (under 4—Related Requirements) to general requirements.
Note that general requirements afford the major 12 s.h. of free electives.

2. Specialized preparation 35 s.h.
   A. Foundations of Health I, HED 201 3
   B. First Aid for Health Professionals, HED 204 3

C.	Organization and Administration of Public Health, HED 242	3
D.	Addictives for Health Professionals, HED 302	3
E.	Nutrition—Weight Control, HED 303	3
F.	Family Life and Sex Education, HED 304	3
G.	School Health Program, HED 305	3
H.	Human Anatomy, BIO 209	4
I.	Human Physiology, BIO 309	4
J.	Mental Hygiene, PSY 370	3
K.	Seminar in Health, HED 401	3
3.	Professional Education Requirements	31 s.h.
A.	School and Society, EDF 100	3
B.	Psychology of Learning and Development, EDP 250	3
C.	Introduction to Instructional Communications, EDM 300	3
D.	Evaluation in Health and Physical Education, PED 351	3
E.	Human Development, HED 206	3
F.	Preparation for Teaching Health, HED 307	3
G.	Field Experience in Health Education, HED 308	1
H.	Student Teaching, HED 404	12
4	Related Requirements	13 s.h.
A	Speech Fundamentals: Interpersonal Communication, SPC 101*	3
B.	Introduction to Sociology, SOC 200*	3
C.	Introduction to Psychology, PSY 100*	3
D.	Chemistry and Man, CHE 100	3
E.	Basic Experimental Chemistry, CHL 100*	1

*May be credited to General Requirements

BACHELOR OF SCIENCE IN PUBLIC HEALTH

1 General Requirements 46 s.h.

Refer to page 70 for a full explanation of the distribution of these requirements. The Department of Health Education recommends that students apply those courses marked with an asterisk (under 4—Related Requirements) to general requirements.

Note that general requirements afford the major 12 s.h. of free electives.

2.	Specialized Preparation	36 s.h.
A.	Foundations of Health I, HED 201	3
B.	First Aid for Health Professionals, HED 204	3
C.	Community Health, HED 241	3
D.	Addictives for Health Professionals, HED 302	3
E.	Nutrition—Weight Control, HED 303	3
F.	Family Life and Sex Education, HED 304	3
G.	School Health Program, HED 305	3
H.	Basic Biological Science, BIO 100	3
I.	Introductory Medical Microbiology, BIO 104	4
J.	Human Anatomy, BIO 209	4
K.	Human Physiology, BIO 309	4
3	Professional Education Requirements	46 s.h.
A.	Human Development, HED 206	3
B.	Organization and Administration of Public Health, HED 242	3
C.	Chronic and Communicable Diseases, HED 341	3
D.	Preparation for Field Work, HED 342	3
E.	Seminar in Health, HED 401	3
F.	Field Experience Public Health, HED 421	12
G.	Mass Media in Society, ENG 261	3
H.	Introduction to Instructional Communications, EDM 300	3
I.	Introduction to Social Work, SWO 200	3
J.	Human Problems, SWO 250	3
K.	Ecology, BIO 370	4
L.	Statistics, MAT 121	3

4. Electives, under advisement
   Students may elect any of the following chemistry courses in place of Chemistry 100.
   Chemistry for Nurses, CHE 101
   General Chemistry I-II, CHE 103-104
   Chemistry: An interdisciplinary approach I-II, CHE 106-107

CONCENTRATION IN ENVIRONMENTAL HEALTH

1. **GENERAL EDUCATION**		44-47 s.h.
Physical Education	2 credits	
English Composition	3-6 credits	
Humanities	9 credits	
Social and Behavioral Science	9 credits	
Mathematics and Science	9 credits	
Free Electives	12 credits	
2. **REQUIRED BY THE COLLEGE**		
SOC 135 Human Relations Experience (1)		1 s.h.
3. **PUBLIC HEALTH CORE**		21 s.h.
HED 201 Foundations of Health I (3)		
HED 241 Community Health (3)		
HED 242 Organization & Administration Public Health (3)		
*HED 421 Internship (12)		
4. **REQUIRED COURSES**		6 s.h.
*HED 350 Environmental Health (3)		
*HED 455 Environmental Health Seminar (3)		
5. **ENVIRONMENTAL HEALTH ELECTIVES**		10 s.h.
*HED 360 Air Quality and Health (3)		
*HED 361 Water Quality and Health (3)		
*HED 362 Occupational Health and Safety (3)		
*HED 363 Solid Waste Management (2)		
*HED 364 Food Sanitation (2)		
*HED 365 Institutional Environmental Health (2)		
6. **SUPPORTING COURSES—SELECTED UNDER ADVISEMENT**		43 s.h.
HED 105 Consumer Issues (3)		
CHE 103 General Chemistry I (3)		
CHL 103 General Chemistry I Lab (2)		
CHE 104 General Chemistry II (3)		
CHL 104 General Chemistry II Lab (2)		
CHE 230 Introduction to Organic & Biological Chemistry (3)		
CHL 230 Basic Experimental Organic & Biological Chemistry (2)		
CHE 321 Analytical Chemistry (3)		
CHL 321 Analytical Chemistry Lab (2)		
BIO 110 General Biology (4)		
BIO 364 Bacteriology (4)		
BIO 370 Ecology (4)		
BIO 484 Epidemiology (3)		
SPC 109 Communication & Social Action (3)		
CSC 101 Introduction to Computers (3)		
CSC 121 Computer Uses and Abuses (3)		
GEO 214 Regional Planning (3)		
GEO 232 Environmental Crises (3)		
PAD 361 State and Local Government (3)		
PAD 363 Urban Government (3)		

*New courses currently being developed for the concentration

COURSE DESCRIPTIONS

HEALTH

Symbol: HED

The first number in parentheses shows number of class meetings per week; the second one shows semester hours of credit.

101 Health (2) (2) Contemporary health problems of the college student.

102 Mental Health (3) (3) Designed to aid persons in improving their understanding of themselves and others. Emphasis on ways to recognize mental health problems.

103 Addictives (3) (3) Thorough study of all addictives in relation to the individual and society.

104 Human Sexuality (3) (3) Study of sexuality as it relates to self; the interrelationships with persons.

105 Consumer Issues (3) (3) Study of consumer issues today that relate to the field of health.

106 Contemporary Issues In Living and Dying (3) (3) Current controversial issues including death and dying. How involved persons cope with death.

107 Parenthood Education (3) (3) Examining the role of the parent; improvement of parent-child relationships.

108 Introduction to Environmental Health (3) (3) Methods of promoting health by controlling environmental factors relating to air, water, food, wastes, accidents, housing, radiation and industrial hygiene.

201 Foundations of Health I (3) (3) Fundamental knowledge of the major health problems.

202 Foundations of Health II (3) (3) Fundamental knowledge of the major health problems. PREREQ: HED 201.

203 Criminal Justice Health (3) (3) Prepares the student to recognize health problems and to perform effectively in emergency health-related situations.

204 First Aid for Health Professionals (3) (3) Prepares students entering the professional field of health to meet emergencies requiring first-aid procedures.

206 Human Development (3) (3) Study of growth from conception through adolescence from the mental, emotional, and physical viewpoints.

207 Health for Early Education (3) (3) A study of health education content and methods that will lead to the development of good health practices in young children. PREREQ: EDE 251.

241 Community Health (3) (3) Community health problems and services considered on the local, national, and international levels. Includes practical experience.

242 Organization and Administration of Public Health (3) (3) A study of the components, functions, and interrelationships that are parts of any program and/or organization in public health.

301 Health for the Elementary Grades (3) (3) Principles and procedures for meeting the health needs of the child.

302 Addictives for Health Professionals (3) (3) Thorough study of the health professionals responsibility in controlling addictive practices by members of society in such areas as alcoholism, drug use, etc.

303 Nutrition—Weight Control (3) (3) Practical approach to the role nutrition and dietetics plays in improving the quality of our lives, socially, physically, mentally and emotionally. Dispelling of fads and fallacies.

304 Family Life and Sex Education (3) (3) Basic concepts and objectives of such a program for students at different age levels. Organizing, launching, and evaluating the program.

305 School Health Program (3) (3) School health services, environment, health instruction, and organization and administration of a school health program.

306 Preparation for Classroom Teaching (3) (3) A comprehensive study of the materials available in health education and the techniques for their prompt implementation. PREREQ for health and physical education majors: HED 202, 305.

307 Preparation for Teaching Health (3) (3) A comprehensive study of the materials available in health education and the techniques for their proper implementation. PREREQ for health education majors: HED 201, 302, 305.

308 Field Experience in Health Education (2) (1) Observations and aid experience of classroom teaching in health education.

341 Chronic and Communicable Disease (3) (3) The study of diseases, causes, effects and control.

342 Preparation for Field Work (3) (3) A comprehensive study of those areas leading to a successful field experience.

401 Seminar in Health (3) (3) A seminar required of all seniors that are school health and public health majors which involves researching and conducting seminars in the current critical health issues.

402 Workshop in Family Life and Sex Education (3) (3) Basic concepts and objectives of such a program for students at different age levels. Organizing, launching, and evaluating the program. Summer only.

403 School/Community Health Workshop (3) (3) A study of common problems relating to health for the home, school, and community.

404 Student Teaching—Health (12) Practical classroom experience in teaching health education. PREREQ: HED 303, 304, 305, 307, 308.

421 Field Experience Public Health (12) Practical field experience working in some facet of the public health field.

Physical Education

David S. Charters,
Chairperson

PROFESSORS: Cochran, Cottrell, Kapilian, Lank, Lowe, Norris, Serpico, Sturzebecker, Woods, Youmans
ASSOCIATE PROFESSORS: Bonsall, Butler, Charters, Coates, Collier, Donley, Furlow, Goodwin, Greenwood, Karas, Lorback, Margerum, Martin, Parkinson, Reese, Trezise, Wilkinson, Wintermute, Yoder
ASSISTANT PROFESSOR: Bitner, Bove, Caldwell, Countiss, Giunta, Godek, Jones, Lauletta, Pagano, Remley, Smith, Taylor, Trnka
INSTRUCTORS: Cash, Hargreave, Lappano, Lubking, Thielz
HEAD COACHES FOR MEN: Baseball—Serpico, Basketball—Voss, Cross-Country—Butler, Football—Furlow, Golf—Charters, Gymnastics—Trnka, Soccer—Lorback, Swimming—Pagano, Tennis—Woods, Track—Butler, Wrestling—Collier.
HEAD COACHES FOR WOMEN: Badminton—Boyle, Basketball—Caldwell, Field Hockey—Cash, Gymnastics—Thielz, Lacrosse—Lubking, Softball—Boyle, Swimming—Parkinson, Tennis—Karas, Track—Hargreave, Volleyball—Greenwood

BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION

1. General Requirements 44 s.h.

   Refer to page 70 for a full explanation of the distribution of these requirements. The School of Health, Physical Education, and Recreation recommends that students apply those courses marked with an asterisk (under 4—Related Requirements) to General Requirements.

   Note that General Requirements afford the major 12 s.h. of free electives.

2. Professional Education Requirements

School and Society (EDF 100)	3
Psychology of Learning and Development (EDP 250)	3
Evaluation in Health and Physical Education (PED 351)	3
Preparation for Teaching Activities (PED 243)	1
Physical Education for Elementary Grades (PED 350)	3
Preparation for Classroom Teaching (HED 306)	3
Student Teaching (PED 490)	12

3. Health and Physical Education Core Requirements

Physical Education

Soccer/Wrestling (PED 110)	1
Soccer/Basketball (PED 111)	
Gymnastics I (Men's Equipment) (PED 112)	1
Gymnastics I (Women's Equipment) (PED 113)	
Aquatics Fundaments (PED 140)*	1
Social, Folk, Square Dance (PED 141)*	1
Tennis/Badminton (PED 142)	1
Golf/Archery/Recreational Games (PED 143)	1
Basketball/Baseball (PED 210)	1
Hockey/Volleyball (PED 211)	
Football and Track/Field (PED 212)	1
Lacrosse and Track/Field (PED 213)	

Physical Conditioning/Volleyball) (PED 214)	1
Modern Dance I (PED 215)	
Fundamental Movement and Elementary Rhythms (PED 242)	1
Principles of Recreation (PED 250)	2
Physical Activity for Special Children (PED 251)	3
Safety Concepts, Emergency Procedures, Injury Management (PED 271)	2
Applied Physiology (PED 352)	3
Organization and Administration of Physical Education and Athletics (PED 353)	3
Kinesiology (PED 361)	2
History and Philosophy of Health and Physical Education (PED 451)	2

Health Education

Foundations of Health I-II (HED 201-202)	6
School Health Program (HED 305)	3
Human Development (HED 206)	3

Other Fields

Human Anatomy (BIO 209)	4
Human Physiology (BIO 309)	4
Effective Writing II (ENG 121)	3

4. Related Requirements

Effective Writing I (ENG 120)*	3
Introduction to Anthropology (ANT 102)*	3
Chemistry and Man (CHE 100)*	3
Basic Experimental Chemistry (CHL 100)*	1
Introduction to Mathematics (MAT 103)*	3
Introduction to Philosophy (PHI 101)*	3
Introduction to Psychology (PSY 100)*	3
Speech Fundamentals: Interpersonal Communication (SPC 101)*	3

5. Area of Concentration Requirements

During the sophomore year, the student may select an area of concentration. The requirements which the student must meet for his area are shown below.

*May be credited to General Requirements

AREAS OF CONCENTRATION (SELECT ONE)

SECONDARY PHYSICAL EDUCATION CONCENTRATION RECOMMENDED FOR MEN—8 S.H.

Required: Prep for Tchg (PED 310), Principles of Coaching (PED 452). Select six of the following activities courses: PED 312-314-316-318-320-322-324-326-328-330. Select one course (2 credits) from the following theory courses: PED 453-454. Under advisement, two credits in Health Education may be chosen in place of one theory course.

SECONDARY PHYSICAL EDUCATION CONCENTRATION RECOMMENDED FOR WOMEN—8 S.H.

Required: Prep for Tchg (PED 311), Principles of Coaching (PED 452). Select six of the following activities courses: PED 312, 314, 316, 318, 321, 323, 325, 327, 330. Select one course (2 credits) from the following theory courses: PED 453-454, 455. Under advisement, two credits in Health Education may be chosen in place of one theory course.

ELEMENTARY PHYSICAL EDUCATION CONCENTRATION—7 S.H.

Required: Elementary Physical Education Curriculum (PED 354). Select two of the following three courses: PED 340, PED 440, or PED 453.

DANCE CONCENTRATION—7 S.H.

Required: Modern Dance I-II (PED 215-343); History of the Dance (PED 344); Dance Production I (PED 345); Dance Production II (PED 346); Principles of Choreography (PED

441). Select one dance course from PED 341 or 342. Select one course from : PED 442-443. Select one course from PED 101 — Jazz or Ballet.

SAFETY CONCENTRATION — 12 S.H.

Required: Education for Safe Living (PED 355); Principles and Practices of Driver and Traffic Safety Education (PED 356); Methods and Materials of Safety Education (PED 450); Preparation for Teaching Driver Education (PED 456). NOTE: Meets State certification requirements for driver education.

ATHLETIC TRAINING CONCENTRATION — 18 S.H.

Required: Therapeutics (PED 357, 357-L); Advanced Athletic Training I (PED 358, 358-L); Athletic Injury Management I-II (PED 459-460). NOTE: Meets National Athletic Trainer's Association certification requirements.

SPECIAL PHYSICAL EDUCATION CONCENTRATION — 10 S.H.

Required: Therapeutics for Special Physical Education (PED 362, 362-L); Pathology for Special Physical Education (PED 360). Select either PED 457 or Psychology of Exceptional Children (EDA 241).

SECONDARY HEALTH EDUCATION CONCENTRATION — Minimum of 9 S.H.

Select from the following courses for a minimum of 9 semester hours: At least two courses from HED 103, 105, 106, 301, 305, 401. Any of these: Mental Hygiene (PSY 370); Contemporary Social Problems (SOC 332); Basic Ecology (BIO 201).

RECREATION AND/OR OUTDOOR EDUCATION CONCENTRATION — 7-9 S.H.

This is a two-track program. The student may, under advisement, select courses in recreational services and/or outdoor education.

NON-DEGREE PROGRAMS

Certification in Driver Education and Safe Living (Highway Safety and General Safety Education).

Completion of the following program will enable the teacher to endorse his teaching certificate with this area. Students must apply for the endorsement through the office of the dean of the School of Education.

PED 355, 356, 450, 456 — 12 s.h.

The program may be taken in whole or in part during summer sessions. Some of the courses are also offered in fall and spring semesters.

ATHLETIC TRAINING EDUCATION PROGRAM

In 1972 the school introduced a program, approved by the National Athletic Trainer's Association, which prepares students to become certified athletic trainers. As of 1974 West Chester was the only college offering this new opportunity toward certification in a summer program. Interestingly, the West Chester program has had an outstandingly high percentage of women participants. The training-education program is designed for both undergraduates and in-service teachers and coaches.

The following courses can be taken during a nine-week summer period as partial fulfillment of the National Athletic Trainer's approved program for preparation toward national certification. The total program consists of a 18-hour block, with prerequisites. Twelve of these hours are offered, as follows:

PED 357, 357-L, 358, 358-L, 359 — 12 s.h.

Consult the Undergraduate Summer Catalog for schedules. Or write to the School of Health and Physical Education before May 1

COACHING CERTIFICATION PROGRAM (ATHLETIC COACHING, K-12)

The Pennsylvania Department of Education now requires that coaches be certified. Those who successfully complete the program at West Chester earn a transcript and written endorsement from the School of Health, Physical Education, and Recreation and official certification from the P.D.E. attesting to school administrators that recipients have attained

basic preparation for coaching. The program is a model for a needed broadening of coaching standards. Students pursuing the B.S. in Health and Physical Education automatically achieve coaching certification.

Certification requires competencies equivalent to fifteen (15) to eighteen (18) hours of course work. Behavioral competencies in the theoretical foundations of coaching, skill acquisition and management techniques are also required. Course offerings at both the undergraduate and graduate levels are available. The program is open to any person who applies for admission through the chairperson of the Physical Education Department. Applicants should direct inquiries to that office.

RECREATIONAL SERVICES

The Office of Recreational Services, under the supervision of the School of Health and Physical Education, seeks to provide for the leisure time of the college community. Recognizing that the needs of each person it serves is different, it seeks to meet these needs through a variety of activities and programs. Recreational Services is divided into three divisions each designed to work in specialized recreational programs. Details of each are provided in the Recreation Services Handbook.

GENERAL SERVICES

General Services activities are of a non-competitive nature, both organized and informal. Informal programs include providing recreational equipment to individuals and groups for leisure time use and scheduling swimming pool facilities and gymnasium for free play. Formal programs provide instruction classes in arts and crafts, skiing trips, slimnastics, golf, square and folk dances, bowling, roller and ice skating parties, bicycle trips, an a run-for-fun jogging program. A new picnic area for use by the college community was added in 1975 and in 1977 a golf driving range.

RECREATIONAL SPORTS (INTRAMURALS)

The Recreational Sports Program is designed to afford every student the opportunity to participate in individual and/or group competition. Emphasis is placed on providing this experience for those students who do not have time, desire, ability, or physical attributes to participate in intercollegiate athletics. Included in the program are flag football, volleyball, boxing, cross country, softball, basketball, swimming, lacrosse, tennis, indoor soccer, and floor hockey. Coed activities are volleyball, badminton, arm wrestling, foul shooting, field hockey, and paddleball.

SPORTS CLUB

Sports clubs have been growing in popularity as a means of meeting the recreational needs of college students. Students, faculty, and staff members with similar sports interests have the opportunity to enjoy these interests together. West Chester has 13 sports clubs coordinated through Recreational Services. Each club selects its own faculty advisor, develops a constitution based on the club's philosophy, elects its own officers, and sets up the training schedule and program. All full or part time undergraduate or graduate students are eligible to join any club. Persons interested in joining a club may contact the president of the club for details on becoming a member.

COURSE DESCRIPTIONS

PHYSICAL EDUCATION

Symbol: PED

The first number in parentheses shows number of class meetings per week; the second one shows semester hours of credit.

101-102 Physical Activities I-II (2) (1) (2) (1) A program of selected activities from the categories of: aquatics; individual sports; physical conditioning; team sports.

103-106-108-109 Elective Physical Activities III-IV-V-VI (2) (1) for each course Free-elective activities selected from categories listed under 101-102.

107 Music and Movement (2) (1) A course which examines and develops the perception of rhythm through movement

110 Soccer I/Wrestling (Men) (3) (1)

111 Soccer/Basketball (3) (1) Emphasis is placed upon fundamental skills, women's rules and tactics of each sport, accomplished through drills and game situations.

112 Gymnastics I (Men's equipment) (3) (1) Apparatus skills, stunts, tumbling, and pyramids for teaching all age levels.

113 Gymnastics I (Women's equipment) (3) (3) Apparatus skills, stunts, tumbling, and pyramids for teaching at all age levels.

140 Aquatics Fundamentals (3) (1) Basic principles of swimming are studied with an emphasis on the mechanical analysis and practice of all strokes; introduction to diving and competitive swimming; safety and survival techniques; water games.

141 Social, Folk, Square Dance (3) (1) Experience in the basic (50) square dance calls, international folk dance and traditional ballroom dances.

142 Tennis/Badminton (3) (1) An explanation of the mechanics and specific skills of both tennis and badminton. Emphasis is placed on conceptual understanding and personal skill development through a variety of teaching progressions and methods.

143 Golf/Archery/Recreational Games (3) (1)

200 Elementary School Physical Education (3) (2) Theoretical and practical approach for the teaching of physical activities to elementary school children by the classroom teacher.

210 Basketball/Baseball (3) (1)

211 Hockey and Volleyball (3) (1) Basic fundamentals, tactics, and women's rules. Modified active games. Geared to teaching physical education classes.

212 Football and Track/Field (3) (1)

213 Lacrosse and Track/Field (3) (1) Lacrosse: Basic fundamentals, tactics, and women's rules. Modified active games. Geared to teaching physical education classes. Track and field: Principles of running, throwing, jumping. Modification needed for physical education classes. Self-testing.

214 Physical Conditioning/Volleyball (3) (1)

215 Modern Dance I (3) (1) Basic course offering the fundamentals of technique and improvisation.

242 Fundamental Movement and Elementary Rhythms (3) (1) Fundamental locomotor and axial movement; music and rhythm in relationship. Rhythmical activities for the elementary program, with suggested teaching methods.

243 Preparation for Teaching Activities (3) (1) Methods of teaching in all areas of physical education and the development of appropriate lesson plans for all ages.

250 Principles of Recreation (2) (2) Historical background of the play movement: theoretical explanations of play; the need for it and its place in education. Methods of recreation leadership.

251 Physical Activity for Special Children (3) (3) A course of adapted physical education. Common childhood disabilities are studied, with emphasis on problems of a chronic nature. Also screening and practical training, working with physically and mentally handicapped children.

271 Safety Concepts, Emergency Procedures, Injury Management (3) (2) Prepares the student to recognize and treat injuries that require immediate and long-term treatment.

308 Officiating (Men) (9 weeks) (3) (1/2) Ethics and techniques of officiating. Students may select from baseball, basketball, football or soccer.

310 Preparation for Teaching Secondary Physical Education (3) (1) Each student develops a physical education activity unit and teaches one lesson from that unit. Further opportunities

for familiarization with various teaching methods and styles through observation, demonstration lessons, and actual practice.

312 Tennis II (9 weeks) (3) (1/2) PREREQ: PED 142

314 Track and Field II (9 weeks) (3) (1/2) PREREQ: PED 212.

316 Basketball II (9 weeks) (3) (1/2) PREREQ: PED 210.

318 Lacrosse I (9 weeks) (3) (1/2)

320 Baseball (9 weeks) (3) (1/2) PREREQ: PED 210.

321 Volleyball II (9 weeks) (3) (1/2) PREREQ: PED 211.

322 Soccer II (9 weeks) (3) (1/2) PREREQ: PED 110.

323 Field Hockey II (9 weeks) (1/2) Individual and team tactics, and special situations. Basic knowledge needed for coaching hockey. PREREQ: PED 211.

324 Football (9 weeks) (3) (1/2)

325 Officiating I (9 weeks) (3) (1/2) Ethics and techniques of officiating. Students may select from a variety of indoor sports.

326 Wrestling II (9 weeks) (3) (1/2) PREREQ: PED 110.

327 Gymnastics II (Women's equipment) (3) (1) Teaching and coaching techniques for apparatus stunts, tumbling, pyramids. PREREQ: PED 113.

328 Gymnastics II (Men's equipment) (9 weeks) (3) (1/2) Advanced work on gymnastics apparatus including trampoline, with emphasis on teaching progression, spotting techniques, and class safety. PREREQ: PED 112.

330 Life Saving (9 weeks) (3) (1/2) Review of basic aquatic skills. Emphasis on lifesaving practices, safety and survival techniques. Successful completion of this course may lead to senior lifesaving certification by the American Red Cross.

331 Water Safety Instruction (3) (2) Leadership procedure in aquatics activities for schools and school camps. Swimming strokes and life saving techniques are analyzed. Opportunity to qualify as a waterfront safety instructor.

340 Self Testing Activities in Elementary School Physical Education (2) (2) Theory and methods to present activities to children on an individualized self-testing basis. The opportunity is provided for direct contact with children to try out the self-testing activities and prepare individualized programs.

341 Advanced Social and Square Dance (3) (1) Experience with square dancing beyond the 50 basic calls, opportunity for calling squares, and more intricate social dance styles.

342 Advanced Folk Dance (3) (1) International folk dances requiring an advanced degree of difficulty with step patterns, formations and styling. Opportunities for teaching, resource material and performance.

343 Modern Dance II (3) (1) Continuation and development of the training offered in PED 215. Emphasis is placed on longer combinations and more complex problem-solving themes. PREREQ: PED 215.

344 History of Dance (3) (2) Evaluation of dance as an art form in relation to man and his society. Physiological, sociological, and psychological implications; dance forms and types. Film and other materials focus on parallel developments in related arts.

345 Dance Production Workshop I (3) (1) Survey of six styles of dance performance: ballet, modern, jazz, Afro-American, tap, folk. Each area is studied independently of the other areas. All are integrated into a final performance, created and directed by the students and available for school, college, and community presentation.

346 Dance Production Workshop II (3) (1) An extension of PED 345. Emphasis is on production elements and a final, student-created and directed performance, available for school, college, and community presentations.

347 Summer Dance Workshop (Technique Emphasis or Composition) (2) (1) Provides new

experiences and reinforces known experiences in areas of modern dance techniques, ballet techniques, dance composition, and analysis of teaching materials.

350 Physical Education for Elementary Grades (6) (3) Students are assigned to elementary schools for teaching and observation and cooperating teachers and college supervisors. (Mon.-Wed.-Fri. 1-3 p.m.)

351 Evaluation in Health and Physical Education (3) (3) Selecting, administering, scoring, and evaluating tests of physical fitness, general motor ability, motor educability, and skill and knowledge.

352 Applied Physiology (3) (3) The application of physiological principles to physical education.

353 Organization and Administration of Physical Education and Athletics (3) (3) Principles of program building in curricular and extracurricular physical education; organizing, administering, and supervising intramural and interscholastic athletic programs.

354 Elementary Physical Education Curriculum (3) (3) Constructing and evaluating the curriculum in elementary physical education. Progression and continuity, along with developmental needs and interests of children, are considered.

355 Education for Safe Living (3) (3) Survey of safety education. History, philosophy, and psychology of accident prevention.

356 Principles and Practices of Driver Education and Traffic Safety (3) (3) Techniques of assessing the knowledge, skill and psycho-physical characteristics of a beginning driver; the relation of these to the safe operation of a motor vehicle.

357 Therapeutics for Athletic Training (3) (3) This course is designed to prepare the student in the theory of therapeutic exercise and the physiological basis of therapeutic modalities.

357-L Therapeutics for Athletic Training, lab (3) (2) This course is designed to develop skills in the evaluation of injury, therapeutic exercise techniques and application of therapeutic modalities. PREREQ: PED 357.

358 Advanced Athletic Training I (3) (3) This course is designed to present the anatomy of the body and the injuries that occur in sports. Prevention, causes, signs, symptoms, initial management and support for activity for each injury will be presented.

358-L Advanced Athletic Training I, lab (2) (1) Course is designed to reinforce learning of human anatomy with lab experiences and provide opportunity to practice skills needed for the support of athletic injuries for activity. PREREQ: PED 358.

359 Advanced Athletic Training II (3) (3) A review of special problems. PREREQ: PED 358.

360 Pathology of Special Education (2) (2) Considerations of the commonly seen disabling conditions in special physical education with regard to anatomical and physiological changes and differences in their prognosis.

361 Kinesiology (2) (2) Basic fundamentals of movement, articulation, muscular actions; analysis of the related principles of mechanics.

362 Therapeutics for Special Physical Education (3) (3) A course for those students interested in the special physical education concentration. Manual muscle testing, ROM measurement, orthopaedic evaluations, principles of therapeutic exercise, and guidelines for exercise programs for those handicapping conditions commonly seen in schools are presented. PREREQ: BIO 109, BIO 309, PSY 100, HED 372, PED 251, PED 352, PED 361.

362-L Therapeutics for Special Physical Education, lab (3) (2) A course designed to give those students enrolled in PED 362 practical experience in those topics presented in PED 362. PREREQ: PED 362.

367 Arts and Crafts in Recreation (3) (3) Theoretical and practical applications of arts and crafts as recreative outlets for all age groups. Arts and crafts materials customarily found in school, camp, and community recreation programs are used.

PED 368 Leadership in Recreation (3) (3) Basic concepts and leadership techniques, studied in various recreation settings. Opportunities for students to practice and develop their own techniques through work in community recreation agencies.

369 Principles of ROPE (3) (3) History, philosophical background, objectives, educational strategies, curriculum, safety considerations, and administration of an adventure-based outdoor pursuits program.

370 Camp Counseling (3) (3) Theory and practice in camping and outing programs, approached from viewpoints of the camper, counselor, supervisor, specialists, and director.

371 Wilderness Adventure I (Mini Outward Bound) (2) (1) An Outward Bound experience. Exposes the student to the Outward Bound philosophy, curriculum, and methodology.

372 Wilderness Adventure II (2) (2) The Wilderness Adventure experience is an adaptation of the Outward Bound Program. The experience is designed to provide the participants with an experiential outdoor pursuits experience.

375 Outdoor Recreation (3) (3) The purpose of this course is to acquaint the student with the role outdoor recreation plays in today's society. The student will develop an appreciation for the outdoors through participation in outdoor recreation programs and learning skills necessary to participate in the program.

376 Recreational Games (3) (2) This course is designed to provide the student with the skills, techniques and available resources involved in planning and directing recreational games. Instruction includes selection of games, activities and opportunities for practical application of interested students.

377 Intramural and Recreational Sports (3) (3) A study of the basic ingredients required for administering successful intramural program. The student serves in the intramural office and program as a student leader and supervisor. In addition, the student will study the rules, regulations, and policies of community sports with national headquarters and leadership.

440 Movement Education in Elementary Physical Education (2) (2) Teaching techniques and subject matter for a program of movement education suitable for children. Designed to help children develop awareness of the body and space in order to develop effective movement patterns.

441 Principles of Choreography (3) (1) The art of dance composition. Basic elements of space, rhythms, and motion dynamics. Students design original movement, progressing from simple to complex solo and group forms. PREREQ: PED 215.

442 Dance Notation Improvisation (3) (1) Designed to give the student exposure to improvisational themes and elementary skills of recording movement through written symbols.

443 Dance and Theatre Arts (3) (1) Advanced level modern dance techniques, with emphasis on all aspects of production: accompaniments, costume, sets and lighting.

449 Learning on the Move (3) (3) A combination of movement education and perceptual motor theory and activities to help teachers and parents to guide the children to maximum developmental potential. Pre-school, nursery, and kindergarten ages.

450 Methods and Materials of Safety Education (3) (3) A study of the total safety program, with emphasis on the teaching of safety. Each student prepares a practice lesson.

451 History and Philosophy of Health and Physical Education (2) (2) A study of past and present concepts of physical education; philosophy and principles of modern physical education programs.

452 Principles of Coaching (2) (2) Principles and methods of coaching sports in the school program.

453 Motor Learning (2) (2) A study of the theories of learning in relation to the acquisition of motor skills.

454 Theories and Practices of Conditioning and Training (2) (2) The application of modern principles to the training and conditioning of athletes. The students will design a year-round conditioning program that considers age and level of competition as well as individual development differences.

456 Preparation for Teaching Driver Education (3) (3) An advanced course to prepare students to teach driver education in the secondary schools.

457 Psychology of Physical Disability (3) (3) A course designed for students in special education. Psychology applied to physical disability; personal and cultural implications of handicaps; the psychodynamics of disability.

458 Physical Disabilities of Childhood (2) (2) A course designed for students in special education. Common orthopedic and neurological disabilities of childhood, especially chronic deviations. Emphasis is on understanding the medical aspects and problems of rehabilitation.

459 Athletic Injury Management I (3) (3) A practical course designed to provide the student with guided exposure to experiences normally found in an athletic training program supporting fall and winter sports. PREREQ: PED 359

460 Athletic Injury Management II (3) (3) A practical course designed to provide the student with guided exposures to experiences normally found in the athletic training program supporting winter and spring sports. PREREQ: PED 459.

467 Supervised Camping Leadership (Arranged) (3) A program in camp leadership at children's summer camps. PREREQ: consent of instructor.

490 Student Teaching (12) Observation and participation in teaching situations in the junior and senior high schools under qualified cooperating teachers and college supervisors. PREREQ: PED 243, 353, HED 206, 373

History

Robert E. Carlson,
Chairperson

Norbert C. Soldon,
Assistant Chairperson

PROFESSORS: Carlson, Crowley, Foster, Fox, Harding, Johnson, Riley, Schalck, Sessa, Shur, Soldon, Stuart, Swan, Turner, Webster, Young
ASSOCIATE PROFESSORS: Burgwyn, Doyle, Peters, Shaffer,
ASSISTANT PROFESSOR: Heston

The student of history seeks to recreate the past (or, more precisely, as much of it as possible) not only rationally to explain and understand the past for its own sake, but also to identify himself and his age with earlier times. He is concerned with the origins and development of and relationships between past people and events and, from the multiplicity of credible and sometimes conflicting evidence, renders judgments on causation and consequences. He seeks to achieve a sense of the past. Among the careers open to history majors are the law, government service, teaching, research, journalism, and business. Indeed, a strong preparation in history can lead to possibilities in virtually every field of endeavor. The Department of History office is 506 Main Hall; the telephone number is (215) 436-2201

BACHELOR OF ARTS—HISTORY

1. General Requirements, see page 70	44 s.h.
2. Foreign Language Requirement	0-12 s.h.
3. Social and Behavioral Sciences Core Requirements, see page 72	21 s.h.

4. History Concentration Requirements — 24 s.h.
   HIS 152
   Senior Seminar (HIS 400)
   Group 1 American History (6 hrs.)
   Group 2 European History (3 hrs.)
   Group 3 World and Regional History (3 hrs.)
   History Electives (6 hrs.)
5. Cognate Courses — 6-15 s.h.
   Five cognate courses selected from literature, art, philosophy. Three of these may be credited to General Requirements. In that event, the student will extend his free elective area to 27 s.h.
6. Free Electives — 18-27 s.h.

BACHELOR OF SCIENCE IN EDUCATION

COMPREHENSIVE SOCIAL STUDIES: HISTORY (concentration)

Students interested in teaching secondary school social studies may pursue a concentration in history while earning state certification and the Bachelor of Science degree. See description under COMPREHENSIVE SOCIAL STUDIES: B.S. IN EDUCATION, Page 115.

GROUPS 1, 2, and 3

GROUP 1 AMERICAN HISTORY
HIS 151, 152, 344, 345, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 370, 372, 373

GROUP 2 EUROPEAN HISTORY
HIS 219, 220, 320, 321, 322, 323, 324, 325, 326, 327, 330, 331, 333, 334, 335, 336, 345, 346, 347

GROUP 3 WORLD AND REGIONAL HISTORY
HIS 101, 102, 145, 218, 301, 302, 305, 306, 309, 310, 311, 312, 315, 316, 317, 348

STUDENTS IN ALL PROGRAMS GIVEN IN THE HISTORY DEPARTMENT NOTE:
Under General and/or Social and Behavioral Sciences Core Requirements, all students must complete HIS 101, 102, 151, and 152.

COURSE DESCRIPTIONS

Symbol: HIS unless otherwise shown

GENERAL

SSC 331 Teaching Social Studies in Secondary Schools (3) Methods and materials of teaching social studies for prospective secondary school teachers. Emphasis is on the "New Social Studies" and instructional materials drawn from the social sciences. Taken by social-science education majors in their junior year. Must be successfully completed prior to doing student teaching.

SSC 380 Ethnic Cultures Workshop (3) A summer workshop sponsored jointly by the Schools of Arts and Letters and Social and Behavioral Sciences. Contributions of ethnic groups to the United States culture are considered. Open only to juniors and seniors. PREREQ: Permission of the dean of the School of Social and Behavioral Sciences.

HISTORY

100 Mainstreams in History (3) A topical interpretation of mankind's cultural development from the earliest times to the present.

101 History of Civilization I (3) Man's cultural elements and social institutions in the West and the East from earliest times through the Renaissance.

102 History of Civilization II (3) Developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world.

120 Impact of War on European Society (3) An examination of the interrelationship of warfare and society in Europe from the feudal period to the present.

122 Major Figures in European History (3) A study of the major figures in European history (1450-1970) and their interaction with the dynamic forces of their times.

126 History of Utopias (3) Study of the history of Utopias and Utopian schemes from Plato's Republic to contemporary American communes. Utopia, both as an antidote for reality, and as a seeding-bed for social, political and economic reform.

140 Emerging Nations (3) A survey of non-Western societies and the impact of Westernization on the traditional cultures of Africa, or Asia, or Latin America, or the Middle East. Area focus varies with instructor.

145 The Jew in History (3) Review of the four thousand years and five civilizations which have welcomed the Jewish people; emphasis on the Jews in contemporary society.

146 The Holocaust (3) Focuses on ethnic, nationalistic, economic and religious causes. 20th century Naziism, racism, and anti-Semitism; the Nuremburg Trials.

151 History of United States I (3) The social, economic, political, and intellectual development of the United States from the beginning of the Colonial period through the Civil War.

152 History of United States II (3) The social, economic, political, and intellectual development of the United States from 1865 to the present, with emphasis on the new industrialism and on foreign affairs.

161 Violence in America (3) A study of violence in American society both as an instrument of change and a method of social control.

163 American Minorities (3) A survey of racial, religious, and ethnic minorities and their struggles and successes in the United States.

164 Depression Decade: The Thirties (3) Selected problems of the depression decade, with emphasis on the political, social and personal reactions to the period.

165 The Turbulent Sixties (3) Examination of the stress and conflict in American politics, arts, literature, and society of the 1960's.

166 20th Century America (3) A survey of the United States since 1898. Emergence of the nation as a world power is stressed.

167 Popular Culture in Twentieth-century America (3) Survey of the history of modern American popular culture and arts, and their impact on our society. Popular literature, the motion picture industry, sport and amusements, popular music and the mass media.

218 The Ancient World (3) Classical Greece and Rome with consideration of economic, social, intellectual, and political history. Selected writings of the ancients.

219 Medieval Europe (3) Western Europe from the fall of Rome to approximately 1300. Economic, social, political, and intellectual developments in the major kingdoms of the West; the history of the Universal Church.

220 Renaissance and Reformation (3) Political, economic, social, and cultural forces which emerged in Europe, 1300 to 1650. The evolution of modern states and the rise of the middle class.

301 History of South Asia (3) A historical study of developments on the Indian subcontinent (India and Pakistan), the course also considers those areas of Southeast Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events.

302 (also ANT 327) Cultures and Peoples of India (3) Hindu and Muslim social structures; village-based societies; religious, cultural, social structures, urbanization; Indian minority social patterns (Parsi, Jewish, Christian).

305 History of East Asia (3) Survey of the historical and cultural background of China, Japan, and Korea. Emphasis is given to the significance of the modern period of East Asia and its impact on world affairs.

306 20th Century Japan (3) Role of Japan in Asian and World Affairs from the Meiji Restoration of 1865 through World War II and until the present time, ending with an attempt to look into the future progress of Japan as an Asian power

309 History of the Middle East (3) Recent history of the major middle Eastern countries. Geographical, cultural, economic, and religious factors which have influenced the history of the area. Special attention to Middle East problems which affect international relations.

310 The Arab and the Jew (3) Cultural and historical background and events which have shaped the present Arabic and Jewish views; emphasis will be placed on their current relations with each other.

311 History of Africa to 1800 (3) A survey of the traditional culture and of the historical development of the African continent prior to the 19th-century. Emphasis is upon the length and diversity of Africa's history prior to European colonization.

312 History of Sub-Saharan Africa Since 1800 (3) A survey of Black Africa's development in the 19th and 20th centuries. Emphasis is upon Africa's colonial experience as the background for the emergence of independent Africa.

315 History of Latin America to 1825 (3) Pre-Columbian period, colonial Latin America and movements for independence; Indian, European, and African backgrounds; government, economy, society, religion, culture, and enlightenment. Interaction of diverse cultures in New World.

316 History of Latin America Since 1825 (3) Latin America in 19th and 20th centuries; liberalism, conservatism, dictatorship, revolution, socialism, industrialization, agrarian reform, cultural-intellectual achievements, and international relations. Topical approach, using individual countries as case-history illustrations.

317 History of Mexico (3) Mexico from Pre-Columbian period to present including civilizations of Mayas and Aztecs, Spanish conquest, Colonial Period, movement for independence, era of Santa Anna, La Reforma, Diaz dictatorship, Mexican Revolution, cultural-intellectural achievements, international relations, and modernization of Mexico since the Revolution.

320 Women in Modern Europe (3) Lives and careers of women in the 19th and early 20th centuries through autobiographies. The problem of women's self-image and sense of identity.

321 History of England to 1688 (3) The British people and their institutions from Roman times to the Glorious Revolution, with primary emphasis on the Tudor and Stuart periods.

322 History of England Since 1688 (3) England as a world leader during the Commercial and Industrial Revolutions, the evolution of the democratic process, and the emergence of liberalism followed by the democratic welfare state.

323 Modern Germany (3) Germany in the 19th and 20th centuries: Napoleonic era, rise of Prussia, nationalism and unification, imperialism and World War I, National Socialism, World War II, and divided Germany.

324 Russian History to 1917 (3) Russian history from 9th century Kiev to the end of the Imperial period. Major emphasis on the continuing religious, economic, social, and political tradition peculiar to the Russian State.

325 Soviet Russia (3) Political, economic, social, and cultural aspects of Soviet society in the light of traditional Russian patterns and the goals of Communism.

326 History of Modern Italy (3) A study of Italian unification, the Era of Liberalism, Fascism, and post World War II developments.

327 Modern France, 1789 to Present (3) French Revolution; Napoleon; Bourgeois France; Third Republic; The Great War and Versailles; Nazism and the Popular Front; The Collapse of 1940; The Fourth Republic; The DeGaulle Era.

330 Conflicts in Modern Europe (3) Power politics in Europe; alliances and counter-alliances; imperialism; first World War and Versailles peace settlements; emergence of totalitarian ideologies.

331 20th Century Europe (3) European fascism and communism; totalitarianism confronts liberalism; interaction between domestic politics and foreign policy; polarization of European politics; disintegration of the political institutions of the traditional state.

333 European Economic History (3) European demographic and technological change; trade unions; agriculture; trade; the entrepreneur; distribution of income and welfare from 10th century to now.

334 European Intellectual History (1250-1800) (3) The development of Western thought and culture from the High Middle Ages to the origins of Romanticism and Democracy.

335 European Intellectual History Since 1800 (3) Ideas and the arts in modern European history, from Romanticism to Existentialism.

336 The European City (3) Urban life in Europe from Periclean Athens to now. Interaction of people with their material environment.

344 History of Pennsylvania (3) The founding and development of Pennsylvania from its Colonial beginnings to the present, with emphasis on the relation of the past to the present.

345 The Status of Women in Two Worlds (3) Comparison of the history and present status of women under the 20th century's two major political systems: communism and capitalism.

346 Jesus and the 20th Century (3) Jesus' significance seen through "The Historical Jesus School," scientific socialism, nationalism, colonialism, existentialism, liberalism, neo-orthodoxy, ecumenicity, charisma, "the Jesus People," Marxist-Christian dialogue

347 Jesus and Marx (3) The relationship between Christianity and Marxism from the confrontation and contradiction of the nineteenth century to the coexistence and cooperation of the twentieth century.

348 The Bible in History (3) The Bible as a historical record. From the Pentateuch, through the prophetic literature, the Apocrypha, the Pseudepigrapha, the Dead Sea Scrolls to the New Testament. Historical records of other ancient Near Eastern civilizations will be compared with Biblical sources

351 Women in America (3) American women's daily routines, social roles, and search for rights and identity since colonial days. Recent goals, values, and conflicts.

352 Modern American Military History (3) The role of the American military in shaping the course of the nation in the twentieth century

353 (also ANT 260) Artifacts and Culture (3) Patterns of American civilization, explored through study of the material culture.

354 U.S. Labor History (3) History and analysis of labor organizations: labor and government; labor and political parties; women and children and minority groups in labor organizations; the strike; technology and labor; Big Labor

355 American Intellectual History (3) Political and economic thought, theology, science, philosophy, literature.

356 U.S. Environmental History (3) Three centuries of change in American attitudes and actions toward the environment, with emphasis upon the roots and development of today's ecology crisis.

357 Diplomatic History of the United States (3) The theory and practice of American diplomacy from Colonial times to the present with emphasis on the 20th century

358 Economic History of the United States (3) The economic development of the American nation as it evolved from a frontier, agricultural country into an urban, industrial power.

359 History of the American Frontier (3) The westward movement and expansion from Colonial times to the end of the 19th century. The frontier forces which shaped American democratic institutions and ideals.

360 Technology and American Life (3) Promises and practices of American life in response to the interaction of American forms, values and scientific-technological change from the colonial period to the present.

361 Constitutional History of the United States (3) The development of the Constitution of the United States from the Philadelphia convention to the present with emphasis on major supreme court decisions.

362 Social and Cultural History of the United States (3) The evolution of American society with emphasis on the impact of improving material conditions upon labor, the arts, education, religion, social mores, and family life. The changing status of women, blacks and immigrants.

363 History of the South (3) The social, economic, political, and intellectual forces that have made the American South.

364 U.S. Urban History (3) A survey of the rise of the American city from early Philadelphia to the modern metropolis. The recurring themes of growth, immigration, social mobility, city politics, city planning, urbanism, and surburbanism.

370 American Indians (3) A survey of Indian civilization on the continent of North America and the confrontation of this civilization with white culture.

372 Topics in Afro-American History (3) Topics vary each semester. Emphasis on student research and participation in discussions. PREREQ: HIS 373 or consent of instructor.

373 Afro-American History (3) The Afro-American: origins, period of slavery, industrialization of the South, migration to northern urban centers, civil rights movement, and the evolution of "Black Power."

400 Senior Seminar in History (3) Research in history. Methodology, bibliography, and presentation, both written and oral. The research paper for the seminar must be acceptable as a required departmental senior research paper. Required of all history majors

410 Independent Studies in History (1 to 3) Research projects, reports, readings in history. Open to seniors only. PREREQ: Permission of department chairperson.

450 Internship in History (1 to 3)

460 Field Studies in History (3)

Instructional Media Education

Joseph M. Spiecker,
Chairperson

PROFESSOR: Strayer
ASSOCIATE PROFESSORS: Redmond, Spiecker
ASSISTANT PROFESSORS: Reis, Steinmetz

West Chester's program in this field is at the graduate level. See the Graduate Studies Bulletin for details. The following undergraduate courses are available through the Department of Instructional Media Education.

COURSE DESCRIPTIONS

Symbol: EDM

300 Introduction to Instructional Communications (3) Techniques, materials and equipment, and the development of skills in their use in teaching. Class meets three times weekly.

450 Design and Production of Visual Communication Materials (3) Exploration of visual communication materials through use of research materials, demonstrations, various production techniques. The student designs and produces visual instructional materials.

460 Basic Photography (3) Workshop-type course stressing the photographic processes. Camera handling and film and print processing included. Students must have complex camera and must purchase personal developing equipment.

470 Motion Picture Production (3) Scripting and shooting of super 8 film, including magnetic sound recording and reproduction.

475 Sound Reproduction in Educational Communication (3) Theory and practice in sound recording and reproduction and their application in education.

480 Closed Circuit Television Production (3) A production course emphasizing the practical work of all aspects of closed-circuit television. Preparation of scripts, graphics, animations, photos, films, film loops, slides, sound recordings, models, guides for learning and teaching, lighting, staging, electronic technical information.

Latin-American and Russian Studies

Offered jointly by the Schools of Arts and Letters and Social and Behavioral Sciences.

Any student in the college, regardless of his or her area of specialization, may earn transcript recognition and a letter of vertification in Latin-American Studies or Russian Studies after satisfactory completion of 21 semester hours of work, distributed as follows:

I. **LATIN AMERICAN STUDIES** 21 semester hours

Required: Either A or B

A. 1. Spanish or Portuguese (Intermediate level or above) 6 s.h.
2. Latin-American History 6 s.h.

OR

B. 1. Latin-American History 6 s.h.
2. Latin-American Civilization and Thought 6 s.h.

Electives: As advised, from Latin-American-oriented courses offered by the Departments of Sociology, Political Science, Business and Economics, Education, Education, Fine Arts, or other departments of West Chester State College. In track A, one three (3) credit course must be devoted to literature, art history, or music 9 s.h.

For advisement, see Professor Lombardi in the Department of Foreign Languages or Professor Crowley in the Department of History.

II. **RUSSIAN STUDIES** 21 semester hours

Required: Either A or B

A. 1. Russian language (Intermediate level or above) 6 s.h.
2. Russian History 6 s.h.

OR

B. 1. Russian History 6 s.h.
2. Russian Civilization and Thought 6 s.h.

Electives: 9 s.h.

As advised, from Russian-oriented courses offered by the Departments of Geography and Planning, Anthropology/Sociology, Political Science, Business and Economics, Education, Fine Arts or other departments of WCSC. In track A, one three (3) credit course must be devoted to literature, art history, or music.

For advisement, see Professor Glumac in the Department of Foreign Languages or Professor Swan in the History Department.

A student should maintain a 3.0 average in area-studies courses to be recommended for graduate work in the area-studies concentration he chooses.

Mathematical Sciences

Frank E. Milliman,
Chairperson

PROFESSORS: Branton, Filano, Grosshans, Koh, L'Heureux, Mandelbaum, Montemuro
ASSOCIATE PROFESSORS: Ahlborn, Fabrey, Fasnacht, Kerrigan, Milliman, Moser, Seybold, Verno, Weaver
ASSISTANT PROFESSORS: Hodgson, Morgan, Stanley, Wiener, Wolfson

The major in mathematics begins with a basic core program including computer science, foundations, and calculus. This is followed by a required sequence of courses covering the major areas of mathematics. Additional specialization in specific branches of mathematics is possible through available electives.

BACHELOR OF ARTS—MATHEMATICS

The B.A. program in mathematics enables each student to receive the basic preparation required for the career of his choice. Among these are college and university teaching, research and other service in government and industry, and computer programming. In all cases each student receives a sound preparation for graduate study in the field of mathematics.

Beyond meeting the general requirements of 44 s.h., the major in this program pursues the following curriculum:

Foreign Language Requirement **6 s.h.**
Through the Intermediate II level in French, German, or Russian.

Related Requirements
CSC 141
PHY 101-102:
Electives (12 s h.)

This 12-hour elective program in mathematics or related areas must be approved by the department at the time of junior standing.

Mathematics Concentration Requirements
MAT 110, 141, 142, 241, 242, 411, 412, 441, 442; electives in mathematics (12 s.h.)

Electives to complete 128 s h.

BACHELOR OF ARTS—MATHEMATICS COMPUTER SCIENCE CONCENTRATION

The major who selects the computer science concentration also meets the general requirements of 44 s.h. and the foreign language requirement given above. Specifically, the requirements are:

Requirements in Mathematics and Science
Mathematics
MAT 110, 141, 142, 241, 242, 343, 421, 425; electives in mathematics (6 s.h.)

Science
PHY 101

Computer Science Requirements
CSC 141, 142, 241, 242, 490 (3 s.h.); electives in computer science (6 s.h.)

Electives to complete 128 sh.

BACHELOR OF SCIENCE — COMPUTER AND INFORMATION SCIENCES

Prepares the student for a career in the field of computer and information sciences. Course work is taken in computer science, mathematics, and either business or another area of the student's choice. In addition, the student gains valuable on-the-job experience through an internship program with local industry or business. Normally this program requires attendance during two summer sessions in addition to the 8 academic semesters. Beyond meeting the general requirements of 44 s.h., the student pursues a core curriculum and one of the following 3 tracks:

Information Systems — prepares the student to use the computer as a tool for management in business and industry. (Systems Analyst)
Computer Systems — prepares the student to engage in the design, development and effective use of computer systems through emphasis on software and computer system structure. (Systems Programmer)
Computer — Arts and Sciences — prepares the student to be an effective computer user in an approved area of his choice.

CORE CURRICULUM

COMPUTER SCIENCE REQUIREMENTS
CSC 141, 142, 241, 242, 361
MATHEMATICS REQUIREMENTS
MAT 161, 162, 261, 221
COOPERATIVE EXPERIENCES
CSC 200, 300, 400

INFORMATION SYSTEMS TRACK REQUIREMENTS
CSC 321, BAC 201-202, BAD 201, BMK 221, ECO 131, ENG 268, 6 s.h. of electives in business, computer science, or mathematics, and electives to complete 128 s.h.
COMPUTER SYSTEMS TRACK REQUIREMENTS
CSC 331, 341, BAC 201, ENG 268, 9 s.h. of electives in computer science and mathematics, and electives to complete 128 s.h.
COMPUTER — ARTS AND SCIENCES TRACK REQUIREMENTS: Sequence of courses approved by Department of Mathematical Sciences and the appropriate academic department (21 s.h.), and electives to complete 128 s.h.

BACHELOR OF SCIENCE IN EDUCATION — MATHEMATICS

The major in this program meets the general requirements of 44 s.h., the professional education requirements of 30 s.h. (see page 215), and the following specialized requirements.

Requirements in Mathematics and Science

Mathematics
MAT 110, 141, 142, 241, 242, 231, 350 (credited to professional education), 411, 421, 441; 412 or 422 or 442; electives in mathematics 9 s.h.

Related Requirments
PHY 101-102

Electives to complete 128 s.h.

COURSE DESCRIPTIONS

MATHEMATICS

Symbol: MAT

101-102 Mathematics for Elementary Teachers I-II (3) (3) Formal development of the

natural numbers, integers, rationals, reals, and complex numbers; probability; intuitive geometry. 101 must precede 102.

103 Introduction to Mathematics (3) An introduction to the nature and spirit of mathematics and its cultural significance.

105 College Algebra and Trigonometry (3) A unified course in algebra and trigonometry. PREREQ. High school algebra.

107-108 Calculus for Business (3) (3) Differential and integral calculus with emphasis on applications. Also includes the study of matrices, determinants, and linear programming using the simplex method. 107 must precede 108.

110 Foundations of Mathematics (3) Topics such as set theory, relations, induction, and the real number system are formally treated. Special topics such as number theory, intuitive geometry, probability, and congruences are examined in an informal setting.

121 Statistics (3) Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, correlation, probability and theoretical distributions, significance of differences, and hypothesis testing For non-mathematics majors.

121L Statistics/Lab (4) Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, correlations, probability, distributions of random variables, estimation and hypothesis testing. Basic concepts of computer programming and use, using the BASIC language to aid in understanding and solving statistical problems.

141-142 Calculus I-II (3) (5) The calculus of real valued functions of a single real variable, including series. 141 must precede 142.

161-162-261 Applied Calculus I-II-III (4) (4) (4) Emphasis on problem solving and applications characterize this course in differential and integral calculus. When applicable, topics in finite mathematics are introduced to support the theory and application of the calculus Must be taken in order

209 Topics in Mathematics for the Elementary Teacher Introduction to progamming in BASIC; computer uses for the classroom teacher; descriptive statistics with applications for teaching; and measurement of length, area, volume and temperature that focuses on the SI metric system with practice in the classroom. Additional topics in applied mathematics will be considered. PREREQ: MAT 102. Offered in fall

212 Algebra for Elementary Teachers (3) Formal structure of groups, rings, and fields with examples from the elementary curriculum. Topics from linear algebra including matrices, determinants, and linear programming. PREREQ: MAT 102. Offered in spring

221 Applied Statistics (3) Statistical analysis of data, hypothesis testing, regression analysis, and analysis of variance. PREREQ: CSC 101 or CSC 102 or CSC 141 and MAT 142 (or MAT 162.) Usually offered in spring.

231 Foundations of Geometry (3) Geometric foundations from an advanced viewpoint Topics are chosen from euclidean and non-euclidean geometries. Offered in spring.

233 Geometry for Elementary Teachers (3) Modern informal approach to two and three- dimensional geometric figures, measurement, similarity, congruence, coordinate geometry, and the postulational method PREREQ: MAT 102. Offered in fall

241-242 Calculus III-IV (4) (4) The calculus of several variables. Topics include the algebra and geometry of n-dimensional euclidean space, linear transformations, directional derivatives, integration and Stokes' Theorem. PREREQ: MAT 142. 241 must precede 242.

261 See 161-162 for description

321 Combinatorics and Graph Theory (3) Introduction to set theory, graph theory, and combinatorial analysis. Includes relations, cardinality, elementary combinatorics, principles of inclusion and exclusion, recurrence relations, zero-one matrices, partitions, and Polya's Theorem. PREREQ: CSC 101 or CSC 141 and MAT 261 or MAT 242.

340 Analysis for Elementary Teachers (3) An intuitive introduction to theory of calculus: limits, continuity, the derivative and the integral. PREREQ: MAT 102 or consent of professor.

343 Differential Equations (3) The general theory of nth order, linear differential equations including existence and uniqueness criteria and linearity of the solution space. General solution techniques for variable coefficient equations, series solutions for variable coefficient equations, and study of systems of linear equations. PREREQ: MAT 241. Offered in spring.

350 Foundations of Secondary Mathematics Education (3) Aims of mathematics instruction, implications of learning theory, contrast current mathematics programs, significance of research, identification of current issues, analysis of current approaches to the teaching of mathematics, lesson preparation, use of teacher-made and commercially available tests and instructional materials. PREREQ: MAT 241. Offered in fall.

351 Teaching Mathematics in Elementary Schools I (3) Concepts, learning aids, syllabi, texts, and methods in elementary school mathematics. PREREQ: MAT 101-102

352 Teaching Mathematics in Elementary Schools II (3) Techniques for teaching children concepts such as geometry in two and three dimensions, number sentences, graphing, ratios and percent, quantifiers, etc.; use of laboratory materials will be emphasized PREREQ: MAT 351. Offered in spring.

354 Techniques of Teaching Secondary School Mathematics (3) Techniques used in the presentation of specific mathematical concepts, associated materials, levels of questioning, motivational devices. Scope and sequence of secondary mathematics topics. Criteria for text evaluation. Preview of student teaching. PREREQ: MAT 350. Usually offered in spring.

390 Seminar in Mathematics Education (3) Typical topics are: remedial programs, low achiever programs, materials for mathematics education, methodology in mathematics education, mathematics and the computer, theories of mathematics education, and analysis of research in mathematics education. PREREQ: MAT 351.

391 Seminar in Mathematics for Elementary Teachers (3) Topics selected for their relevance and value for the prospective elementary teacher PREREQ: permission of department chairperson.

400 History of Mathematics for Elementary Teachers (3) History and development of elementary mathematics from primitive times to the discovery of the calculus. Problems of the period are considered. PREREQ: MAT 212, 233.

401 History of Mathematics (3) Development of mathematics from the Babylonian era to the 18th century. Some modern topics included. PREREQ: MAT 241.

405 Special Topics in Mathematics (3) Topics announced at the time of offering

411-412 Algebra I-II (3) (3) Abstract algebra. Algebraic systems; groups; rings, integral domains, and fields, PREREQ: MAT 241. 411 must precede 412.

414 Theory of Numbers (3) Properties of the integers; primes, factorization, congruences, and quadratic reciprocity. PREREQ: MAT 242. Usually offered in spring.

416 Linear Algebra (3) Basic concepts and results of vector spaces including characteristic polynomials, Jordan forms, and inner product spaces. Applications to the geometry of affine and euclidean spaces. PREREQ: MAT 411 or consent of instructor. Usually offered in spring.

421-422 Mathematical Statistics I-II (3) (3) Probability theory, discrete and continuous random variables, distributions, moment generating functions. Statistical sampling theory, joint and interval estimation, test of hypothesis, regression, and correlation. PREREQ: MAT 242, 421 must precede 422. 421 in spring; 422 in fall.

425 Numerical Analysis (3) Numerical methods for the approximate solution of applied problems. Interpolation theory, curve fitting, approximate integration and numerical solution of differential equations. PREREQ: CSC 100 or CSC 101 or CSC 102 or CSC 141 and MAT 261 (or MAT 242).

427 Introduction to Optimization Techniques (3) Nature of optimization problems: deterministic and stochastic, discrete and continuous. Computer methods of solution: systematic and random search: linear quadratic, dynamic programming, and others. PREREQ: CSC 101 (or CSC 141) and MAT 261 (or MAT 242).

431 Topics in Geometry (3) Announced at time of offering. PREREQ: MAT 231.

432 Topology (3) Elements of point set topology. Separation axioms. Connectedness, compactness, and metrizability. PREREQ: MAT 242. Usually offered in fall.

433 Differential Geometry (3) Classical differential geometry from a modern viewpoint. Curves and surfaces; shape operators; introduction to Riemann geometry. PREREQ: MAT 242.

441-442 Advanced Calculus I-II (3) (3) A rigorous treatment of the calculus of a single real variable. Topics in several real variables and an introduction to Lebesque integration. PREREQ: MAT 242. 441 must precede 442.

443-444 Applied Analysis I-II (3) (3) The techniques of analysis applied to problems in the physical sciences. Topics include: partial differential equations, orthogonal functions, complex integration, and conformal mapping. PREREQ. MAT 242. 443 must precede 444.

445 Complex Variables (3) Introduction to functions of a complex variable. Analytic functions, mappings, differentiation and integration, power series, and conformal mappings. PREREQ: MAT 242. Usually offered in spring.

490 Seminar in Mathematics (3) Topics in mathematics selected for their significance and student-instructor interest. Independent study and student reports, oral and written. PREREQ. senior standing and consent of department chairperson.

493 Mathematical Modeling (3) The idea of a mathematical model of a real situation. Techniques and rationales of model building. Examples from the life, physical, and social sciences. PREREQ: MAT 242, 343.

COMPUTER SCIENCE

Symbol: CSC

101 Introduction to Computers (3) Programming and use of the computer for the student's various needs. The student writes a number of programs to accomplish a variety of computing tasks. Several computers and programming languages considered

102 Introduction to Computers—Business (3) The business major learns to program and use the computer, and writes a number of business-related programs.

121 Computer Uses and Abuses (3) Introduction to the computer as a tool of society. Current and potential uses of the computer, and areas where its use or misuse could be detrimental to society if not properly controlled.

141-142-241-242 Computer Science I-II-III-IV (3) (4) (4) (4) The art and science of computing is introduced via an elementary language, usually **BASIC.** Structured programming is studied via **COBOL.** The structure and operation of the computer is investigated in terms of its machine language. A comparative study is made of several procedural languages, such as **FORTRAN, APL, PL-I.** PREREQ: 2 years high school algebra. 141-142 offered in fall and spring; 241 offered in fall; 242 offered in spring.

200 Cooperative Operations (3) The student works in an organization's computer center as a junior computer operator to gain familiarity with day-to-day activities and the jargon of the computer industry. PREREQ: CSC 142, at least 40 clock hours in the college's computer center's operations section, and approval of the Computer Science Committee.

300 Cooperative Applications Programming (4) The student works in the applications programming section of an information systems group as a junior programmer to gain experience in programming and implementing small projects of use to the company. PREREQ: CSC 242 and approval of the Computer Science Committee.

311 Firmware (3) Hardware characteristics of general purpose digital computers and related equipment with emphasis on microprogramming. PREREQ: CSC 242.

321 Data Base Management Systems (3) Characteristics of generalized data management systems; survey of widely used systems; techniques for improving the interface between a

manager and information he needs to make decisions through easy-to-use generalized reporting systems. PREREQ: CSC 242. Offered in fall.

325 Systems Design (4) The student designs and implements an information system. This project involves the complete system development cycle: analysis, design, programming with documentation, implementation, and follow up. PREREQ: CSC 321, approval by Computer Science Committee of a detailed project proposal. Offered as needed.

331 Operating Systems (3) Operating systems and their user characteristics. Maintenance of a complex operating system with emphasis on important trade-offs made in tuning the system. Core and file management, systems accounting, other user related services. PREREQ: CSC 242. Offered odd years in spring.

335 On-Line Computing (3) Design, implementation, modification of information systems in an on-line environment. File management systems and data structures appropriate to real-time computing with emphasis on back-up and recovery techniques. PREREQ: CSC 242. Offered in spring even years.

336 Data Communications (3) Hardware and software characteristics of equipment providing communication between computers and remote terminals. PREREQ: CSC 242. Offered as needed.

341 Compiler Construction (3) Translation, loading, execution of a higher level language. Syntax analysis of simple expressions and statements. Organization of a compiler; design and implementation of a simple compiler. PREREQ: CSC 242. Offered spring even years.

350 Computers in Education (3) Technical knowledge and skills for successful use of the computer as a supportive tool of education in elementary and secondary school classes. Usually offered summers.

361 Simulation (3) Computer simulation utilizing logical, numerical, and Monte Carlo modeling to represent systems. Use of special languages to simulate actual systems. PREREQ: CSC 101 (or CSC 102 or CSC 141), MAT 261 (or MAT 242), MAT 221 (or equivalent). Offered in fall.

371 Computer Graphics (3) Construction and manipulation of prototypes for graphical display purposes. PREREQ: CSC 141 (or CSC 101 or CSC 102), MAT 261 (or MAT 242). Offered in fall.

400 Cooperative Specialty (9) Working for an organization in his concentration area, the student applies his background to real problems. PREREQ: approval of Computer Science Committee.

490 Independent Project in Computer Science (1-5) The student designs and implements a software system. Project problems are drawn from local industry and college departments. A computer science faculty member supervises each project. PREREQ: consent of instructor. Offered as needed.

495 Topics in Computer Science (3) Announced at time of offering. PREREQ: consent of instructor. Offered as needed.

499 Independent Study in Computer Science (1-4) In conjunction with the instructor, the student selects study topics via literature search. PREREQ: consent of instructor. Offered as needed.

Music

Charles A. Sprenkle,
Dean

Alexander Antonowich,
Associate Dean

Ira C. Singleton,
Associate Dean
for Graduate Studies
and Research

PROFESSORS: Antonowich, Barrow, Carey, Cohen, Johns, Merrell, Munger, Pennington, Pflieger, Schick, Schmidt, Singleton, Sprenkle, Stringer, Veleta, Wells, Wilkinson, Wright
ASSOCIATE PROFESSORS: Alt, Bedford, Belmain, Boerlin, Dorminy, Frenz, Friday, Gangemi, Haban, Hales, Klein, Laudermilch, McHugh, Markow, Murray, Nelson, Pandel, Pethes, Sheppard, Southall, Sullivan, Sweet, Vandever, Voois, Wagner, Whitten, Williams
ASSISTANT PROFESSORS: Collins, Conaway, Guidetti, Hegvik, Lee, Northeimer, Roper, Vinquist (Part-time)
INSTRUCTORS: Ahramjian, Breuninger (Part-time), Dillard (Part-time), Goebel (Part-time), Lucas, Swartley

BACHELOR OF SCIENCE IN MUSIC EDUCATION

BACHELOR OF ARTS IN MUSIC

BACHELOR OF MUSIC

The School of Music offers three programs of study leading to undergraduate degrees:

(1) Bachelor of Science in Music Education: a balanced program of general, specialized, and professional courses leading to qualification for a Pennsylvania Instructional I Certificate to teach music in the elementary and secondary schools of Pennsylvania for three years. Three teaching concentration programs—general, instrumental and vocal-choral—are provided.

(2) Bachelor of Arts in Music: a balanced program of courses which are general and specialized, providing a concentration area in either performance or a combination of music theory and music literature; structured for students desiring a liberal-arts education with a major in music.

(3) Bachelor of Music: a balanced program of courses which are general, specialized, and professional for the performing musician; structured for students desiring a college degree and interested in such areas as professional performance, studio teaching, and church music.

ENTRANCE REQUIREMENTS

Candidates for admission to the School of Music must meet the general requirements for admission as indicated under Admission to West Chester. In addition, all candidates must appear for a personal interview and certain music tests, which vary according to the degree program sought.

The college will provide large instruments such as the tuba, string bass, or timpani for these tests. All smaller instruments must be brought to the college.

All candidates will take the Seashore Measures of Musical Talents, for which no preparation is necessary.

The following are acceptable as "major" instruments: violin, viola, cello, bass, trumpet, trombone, baritone, tuba, French horn, oboe, English horn, flute, Bb clarinet, saxophone, bassoon, and percussion (provided the candidate demonstrates an acceptable competence in playing various percussion instruments). The guitar and accordion are not considered acceptable major performance areas. However, the School of Music will audition a candidate on these instruments if he believes the audition will demonstrate evidence of his background.

TRANSFER STUDENTS—consult the paragraphs headed "Transfer Students" and "College Policies for Students Transferring from a Non-Accredited Institution" under Admission to West Chester.

MUSIC TESTS—BACHELOR OF SCIENCE IN MUSIC EDUCATION

(1) Each candidate must demonstrate skill in at least one performing medium in which he excels: piano, organ, voice, or a band or orchestra instrument. It is preferable, although not required, for pianists and vocalists to perform at least part of their audition from memory.
(2) All candidates are tested in voice, piano, and sight singing.
(3) A piano, organ, or voice major who has band or orchestra instrument experience is urged to demonstrate his ability on his instrument.

Note: Each candidate must bring music for the vocal, piano, and instrumental compositions he intends to perform, and should come prepared with a song that will demonstrate vocal range and quality. Candidates for B.A. and B.Mus. degrees will also take all of the tests required for admission to the B.S. program.

MUSIC TESTS—BACHELOR OF ARTS IN MUSIC

Those planning to elect the concentration in performance must demonstrate an advanced level of accomplishment in an audition. Memorization is preferred for vocalists and pianists.

MUSIC TESTS—BACHELOR OF MUSIC

Each candidate must demonstrate an advanced level of proficiency in the major area of performance as evidenced by his ability to perform compositions representing a variety of musical periods and must show potential as a professional performer. Memorization is required for pianists and vocalists.

NOTE

Candidates for the B.A. and B.Mus. degrees will also take all of the tests required for admission to the B.S. program.

SCHOOL OF MUSIC DEGREE PROGRAMS

BACHELOR OF SCIENCE IN MUSIC EDUCATION

Candidates choose one of three teaching concentration programs—general, instrumental, or vocal-choral. They must satisfactorily complete 128 semester hours, distributed among the following areas:

1. General Requirements (see page 70) — 44 s.h.
   MUS 221, Theatre/Speech (General and Vocal-Choral Concentrations), PSY 100, and MUS 414 are required.

2. Professional Education Requirements — 26-28 s.h.
   EDF 100, MUS 331, MUS 332, methods course or courses in the teaching concentration (2-4 hrs.), EDP 250, MUS 431.

3. Specialized Preparation — 56-58 s.h.
   A. *Theory and Music History* (23 s.h.)
      Theory I, II, III, IV
      Aural Activities, I, II, III, IV

Music in Western Civilization II

B. *Applied Music* (26 1/2-35 s.h.)
Conducting (4 s.h.)
Major Performing Area (Individual Lessons) (8-9 s.h.)
Minor Performing Area (Individual Lessons) (4-6 s.h.)
Minor Performing Area (Class Lessons) (3 1/2-11 s.h.)
Musical Organizations (6-11 s.h.)

C. *Electives* (0-8 1/2 s.h.)
Chosen from courses listed by each department in the school.

BACHELOR OF ARTS

1. General Requirements (see page 70) — 44 s.h.
The following requirements are credited to General Requirements:
MUS 221, MUS 414, special concentration requirements (Consult the student handbook)

2. Foreign Language Requirement — 6 s.h.
(through Intermediate II level)

3. Music Core — 30 s.h.
Theory I, II, III, IV
Aural Activities I, II, III, IV
Counterpoint I
Music in Western Civilization II
Secondary Performance Area (2 s.h.)
Conducting (Choral or Instrumental) (2 s.h.)

4. Area of Concentration Requirements — 48 s.h.

Elect Either A or B.

A. *Concentration in Performance*
Major Performance Area (Individual lessons, recital) (12 s.h.)
Musical Organization (2 s.h.)
Music History elective (3 s.h.)
Special elective requirement of Concentration Area
(under advisement) (9 s.h.)
Electives (22 s.h.)

B. *Concentration in Theory-Music History and Literature*
Piano (8 s.h.)
Musical Organizations (4 s.h.)
Research Techniques (3 s.h.)
Music History electives (chosen from Mus 340-345) (9 s.h.)
Free Music History elective (3 s h.)
Counterpoint II (3 s.h.)
Form and Analysis (3 s.h.)
Orchestration (3 s.h.)
Composition I (3 s.h.)
Free electives in history or theory (9 s.h.)

BACHELOR OF MUSIC

1. General Requirements (see page 70) — 44 s.h.
MUS 221, MUS 414 are required

2. Foreign Language Requirement — 6 s.h.
(need not be at intermediate level)

3. Area of Concentration Requirements — 78 s.h.

A. *Required Core* (66 s.h.)
(1) Music History (9 s.h.)
Music in Western Civilization II
Aesthetics and Music Criticism
Music History-Literature elective

(2)Theory of Music (23 s.h.)
Theory I, II, III, IV
Aural Activities I, II, III, IV
Counterpoint I
(3) Applied Music (34 s.h.)
Major Performance Area (including recitals) (16 s.h.)
Secondary Performance Area (4 s.h.)
Musical Organization (2 s.h.)
Conducting (Choral or Instrumental) (2 s.h.)
Master Class and/or Ensemble (4 s.h.)
Literature (Applied Major) (6 s.h.)

B. *Electives (under advisement)* (12 s.h.)

Note: Voice majors are required to elect at least 9 s.h. of foreign language study. (These studies may be at any level.)

COURSE DESCRIPTIONS

DEPARTMENT OF THEORY AND COMPOSITION

Symbol: MUS

James J. Wright, Chairperson; *Coeyman, Gangemi, Haban, Munger, Nelson, Sullivan, Wilkinson, and Staff.*

112 Theory of Music I (3) Fundamentals of music theory, music writing, keyboard harmony. Elements of musical form; binary and ternary forms. Tonic, dominant, subdominant and leading tone triads in root position and inversions. Analysis and creative activity.

113 Theory of Music II (3) Supertonic, submediant and mediant triads and their inversions; secondary dominants. Modulation. Compound ternary, rondo and variation forms. Analysis and creative activity. PREREQ: Mus 112

114 Aural Activities I (2) Development of basic hearing skills, chiefly through sight singing and dictation activities based upon the subject matter of MUS 112.

115 Aural Activities II (2) Continued development of basic hearing skills. PREREQ: MUS 114.

212 Theory of Music III (3) Diatonic and chromatic seventh cords and their inversions. Modulation. Invention and fugue, sonata-allegro forms. Analysis and creative activity. PREREQ: MUS 113

213 Theory of Music IV (3) Harmonic and contrapuntal techniques of the 20th century. Form in contemporary music. Analysis and creative activity. PREREQ: MUS 212.

214 Aural Activities III (2) Material of advanced difficulty involving chromatic alteration, foreign modulation, and intricate rhythms. PREREQ: MUS 115.

215 Aural Activities IV (2) Continuation of MUS 21 and activities involving nontonal music. PREREQ: MUS 214.

312 Counterpoint I (3) The contrapuntal techniques of tonal music. Choral prelude and invention PREREQ: MUS 212.

313 Counterpoint II (3) Advanced contrapuntal forms including canon and fugue. PREREQ: MUS 312.

314 Musical Form (3) The standard forms of tonal music based on the treatises of Goetschius and Salzer. PREREQ: MUS 212.

315 Orchestration (3) The orchestra; use of instruments individually and in combination. PREREQ: MUS 212.

316 Performance Practices in Contemporary Music (1) Technical problems of understanding new notation (e.g. graphic, proportional, multiphonics, microtones, metric modulation,

asymetrical rhythm groupings, prose scores, etc.) and facility in performing scores which include these techniques. PREREQ: MUS 213.

412 Composition I (3) Creative writing in the forms, styles, and media best suited to the capabilities and needs of the student. PREREQ: MUS 212.

413 Composition II (3) Further application of MUS 412, stressing contemporary techniques. PREREQ: MUS 412.

414 Acoustics of Music (3) The study of sound: its production, transmission, and reception. Musical instruments, the acoustics of rooms, and the physical basis of scales.

415 Serialism and Atonality (3) Compositional procedures and theoretical concepts in atonal and serial works of Schoenberg, Berg, Webern, Bartok, Stravinsky, and more recent composers. PREREQ: MUS 213.

416 Jazz Practices (3) Jazz history, writing, and performance. Survey of basic jazz literature; fundamental techniques in arranging and improvising. PREREQ: MUS 213 or equivalent.

DEPARTMENT OF MUSIC HISTORY AND LITERATURE

Symbol: MUS

Liselotte M. Schmidt, Chairperson; *Johns, Murray, Pflieger, Wells, Vinquist and Staff.*

121 Fine Arts (Music) (3) Designed for the general requirements. An introductory course in the history and appreciation of music from the Middle Ages through the contemporary period. Not open to music majors or elementary education student with a concentration in music.

Note that other courses are available to the non-music major for general requirements. Particularly suitable are MUS 122, 123, 125, 126, 127, 128, 421. Additional courses may also be taken for the same purpose, with consent of department chairperson.

122 Music History I (3) The history and appreciation of music from the earliest times through the Baroque period. Musical forms, aesthetic concepts, and practices. Analysis and listening experience.

123 Music History II (3) The history and appreciation of music from the classical through the contemporary period. Continuation of MUS 122.

125 Perspectives in Jazz (3) For non-music majors. Guided listening to improve understanding and enjoyment of jazz with emphasis upon jazz heritages, chronological development, and sociological considerations, culminating in an analysis of the eclectic styles of the 1960's and 70's.

126 Folk and Traditional Music of the Western World (3) Introductory survey of music and musical styles of folk and traditional music in the Western world. Analysis of styles, forms, aesthetic and cultural concepts, and practices, surveyed as they relate to folk music and the mainstream of art music.

127 Special Subjects Seminar (3) Significant topics presented by faculty members and/or visiting lecturers. Designed for the non-music major who has had little or no previous musical experience. Fulfills the general requirements.

128 Music in American Life (3) Chronological study of music in American life and culture, placing emphasis on music as a gauge of cultural history; no previous musical training necessary; meets the general education requirements. For non-music majors.

221 Music in Western Civilization I (3) A history of music from earliest known times through the Baroque Period—to 1750. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MUS 113. For non-music majors: consent of instructor.

222 Music in Western Civilization II (3) A history of music from the Classical through Contemporary Period. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MUS 113. For non-music majors: consent of instructor.

224 Keyboard Literature I (3) A survey of literature for keyboard instruments from the

Baroque Period through the late Classical Period The various styles in solo and ensemble literature are illustrated by recordings and performance by keyboard majors.

225 Keyboard Literature II (3) A continuation of MUS 224. Performance by keyboard majors and recordings. Literature from the Romantic through the Impressionist Period is studied.

227 Literature of the Musical Theater (3) The literature of the musical theater from Singspiel to Broadway Musical. Changes in style are observed and analyzed.

320 Folk and Non-Western Music (3) A study of the music of non-Western folk music, along with an introduction to ethnomusicology and its research techniques. PREREQ: MUS 221-222

321 African and Afro-American Music (3) African music in its social context. African- influenced music of the Western hemisphere including spirituals, work songs, field hollers, ragtime, blues, jazz, gospel songs, and soul music. Some "art" music by black composers. PREREQ: an introductory course in music or permission of instructor.

322 American Music (3) Survey of the development of music and musical style from 1620 to the present. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ: MUS 221 and 222, or permission of the instructor.

323 Aesthetics and Music Criticism (3) The nature of aesthetic experience and various problems in the philosophy of art. Principles of criticism related to music and its performance. For music majors, or non-music majors with permission of instructor.

324 String Literature (3) A survey of literature for string instruments from the pre-Baroque through the Classical Period. Study of style, form, and analysis; performance. Students, performing on their major instruments, and pertinent recordings provide illustrative literature. For music majors, or non-music majors with permission of instructor.

326 Woodwind Literature (3) A survey of literature for flute, oboe, clarinet, and bassoon from the Baroque and Classical Periods. Recordings and performance by woodwind majors. For music majors, or non-music majors with permission of instructor.

328 Brass Literature (3) The nature and development of brass instruments, observed in the solo, ensemble, and orchestral literature of the 16th, 17th, and 18th centuries. For music majors, or non-music majors with permission of instructor.

329 Art Song (3) Origins and development of the art song.

340 Medieval Music (3) Development of plainsong and secular monody and beginnings of early history of polyphony through the 14th century. Consideration of contemporary trends in the visual arts, history, and literature. PREREQ: MUS 221 and 222, or permission of instructor.

341 Renaissance Music (3) Sacred and secular music in the age of Dufay; changing forms and styles through the music of the Franco-Flemish groups; the frottola and related forms; Palestrina and his contemporaries, with a brief consideration of contemporary trends in the visual arts, history, and literature. PREREQ: MUS 221 and 222, or permission of instructor.

342 Baroque Music (3) Styles and forms of Baroque repertoire; contributions of the major Baroque composers; role of music and musicians in the society of the period. PREREQ: MUS 221 and 222, or permission of instructor.

343 Late 18th Century Music (3) Changing styles and forms in: the sons of J. S. Bach; the Viennese pre-classicists; the Mannheim school; opera; Joseph and Michael Haydn, Mozart, and their contemporaries; the early works of Beethoven. PREREQ: MUS 221 and 222, or permission of instructor.

344 Music of 19th-Century Romanticism (3) Historical developments during the Romantic Period (circa 1800-1900). Analysis of changes and trends; comparative aspects of new forms. PREREQ: MUS 221 and 222, or permission of instructor.

345 Contemporary Styles (3) Trends in modern music from about 1900 to the present. Analysis and listening experience. PREREQ: MUS 221 and 222, or permission of instructor.

346 Bach and His Works (3) The life of J. S. Bach; works for organ, keyboard, and other instruments; cantatas and larger choral works. PREREQ: MUS 221 and 222, or permission of instructor.

348 Problems in Performance Practice (3) Historical and analytical consideration of special problems in the accurate realization and performance of music from the Middle Ages to the present. PREREQ: MUS 221 and 222, or permission of instructor.

349 Introduction to Research in Music History (3) Basic bibliographical material, library resources, and research techniques applicable to undergraduate study in music history and literature. Required of B.A. majors in music history and theory. Open to others with permission of instructor and department chairperson.

424 Development of the Opera (3) A basic course in the origin and development of the opera and its dissemination throughout the Western World. PREREQ: MUS 221 and 222, or permission of instructor.

425 Literature of Orchestra Music (3) A study of representative orchestra works; symphonies, concerti, suites, overtures, and others, from the Baroque Period to the present. Appreciation and analysis. PREREQ: MUS 221 and 222, or permission of instructor.

426 Choral Repertoire (3) The development and performance style of the choral repertoire.

428 Chamber Music Literature (3) Analysis of style and form of chamber music repertoire from the Baroque through Modern Period. Emphasis on appreciation as well as structure. PREREQ: MUS 221 and 222, or permission of instructor

429 Special Subjects Seminar (3) Significant topics presented by faculty members and/or visiting lecturers. Designed to meet the specific needs of undergraduate music majors.

DEPARTMENT OF MUSIC EDUCATION

Symbol: MUS

Margaretta A. Carey, Chairperson; *Antonowich, Belmain, Collins, Merrell, Northeimer, Singleton, Stringer, and Staff.*

030 Fundamentals of Music (no credit) For elementary education students who do not meet minimum requirements on a music fundamentals test. For these students the course is a prerequisite for MUS 231. Intervals, scales, key signatures, and other fundamentals of musical notation are stressed

231 Music for the Classroom Teacher (3) Designed to equip the elementary classroom teacher to participate in the music program. Emphasis on teaching procedures and materials. PREREQ: passing grade on a music fundamentals test.

232 Music in Early Childhood (3) Designed to equip the teacher of early childhood to develop specific concepts utilizing singing, rhythmic and melodic activities. Emphasis on listening and movement to music. Fall semester only.

331 The Music Curriculum, K-6; Methods and Materials (3) The study of music and the learning process at the elementary level; the listening program, pedagogy for the elementary music program, and materials.

332 The Music Curriculum 7-12; Methods and Materials (3) The study of music and the learning process at the secondary level; the listening program, the middle and junior high school general music programs, ethnomusic, programs and performances, basics of administration, related arts, the music major program, and evaluative techniques.

333 Instrumental Methods (2) Fundamentals underlying the development in instrumental programs in the public schools. Emphasis upon program organization and administration, teaching procedures, and materials.

Note that MUS 331, MUS 332, and MUS 333 are scheduled concurrently, normally in the junior year, in order to permit regular and ample opportunity for observation in area pubic schools.

334 Teaching Music Listening at the Elementary Level (3) The teaching of the elements of music, musical concepts, and the development of aesthetic sensitivity through listening.

335 Choral Materials and Practices (2) Designed to acquaint the student with the vast amount of choral music suitable for school use. Program building and rehearsal techniques are demonstrated.

337 Instrumental Techniques and Materials (2) For juniors and seniors who desire to specialize in instrumental music. Considers rehearsal procedures, effective materials, minor repairs of instruments, competitions and festivals, and marching band procedures. PREREQ: MUS 333.

338 Piano Pedagogy (3) Designed as preparation for studio teaching. Emphasis is on materials and varied approaches for the early stages of instruction.

430 Related Arts Pedagogy in Music Education (3) Historical background of the related arts movement. Principles of related arts teaching related to musical elements, forms, and styles, with appropriate teaching techniques at specified grade levels. Materials for school music programs: basal music series, other texts and literature, resources in related arts. Demonstration lessons and unit planning

431 Student Teaching, Practicum, and Direction of Student Activities (12) Observation and participation in teaching vocal and instrumental music in situations ranging from the primary grades through senior high school. Undertaken in conjunction with qualified cooperating teachers Professional conferences and visitations are an integral part of the experience. PREREQ: 96 semester hours including the required Music Theory, Music History and all professional education courses.

DEPARTMENT OF KEYBOARD MUSIC

Richard K. Veleta, Chairperson; *Bedford, Hales, Lucas, McHugh, Pandel, Pennington, Pethes, Schick, Voois, Ward, Whitten, Wilkinson and Staff.*

NUMBERING SYSTEM

Private and class lessons given by the Department of Keyboard Music are shown by the following numbers, together with the approriate prefix:

PIA—Piano ORG—Organ

Course Number		Semester Hours
001-002	**Class instruction in minor performance area**	**1/2**
101-402	**Private instruction in minor performance area**	**1**
105-106	**Private instruction in minor performance area, Elementary Education students with a concentration in music**	**1**
107-109	**Private instruction in major performance area, Elementary Education students with a concentration in music**	**1**
111-412	**Private instruction in major performance area, Music Education program**	**1**
413	**Elective credit for senior recital, accompanying, or other participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student- teaching semester by permission of the department.**	**1**
121-422	**Private instruction for Music Education students with Advanced Standing**	**1**
131-432	**Private instruction in major performance area, B.A. program**	**1 or 2**
141-442	**Private instruction in major performance area. B.Mus. Program**	**2**

MAK 311-314 Master Class (Keyboard) (1) For keyboard majors. Experience in performing memorized literature. Class members also play two-piano compositions and ensemble music for piano and other instruments. Keyboard trios, quartets, and quintets are analyzed and performed.

PIA 310 Accompanying (2) A laboratory course in the principles of playing accompaniments to art songs, concertos, and Baroque recitatives; and in ways to realize continuos and make orchestral reductions at the piano.

PIA 400 Piano Class (Elementary Teachers) (3) Piano accompaniments for classroom music activities; teaching of practical classroom materials.

DEPARTMENT OF VOCAL AND CHORAL MUSIC

Roy D. Sweet, Chairperson; *Alt, Conaway, Dorminy, Frenz, Friday, Markow, Sheppard, Vandever, Wagner, Williams, and Staff.*

NUMBERING SYSTEM

Private and class lessons given by the Department of Vocal and Choral Music and shown by the following numbers, together with this prefix:

VOI—Voice

Course Number		Semester Hours
001-002	**Class instruction in minor performance area**	**1/2**
101-402	**Private instruction in minor performance area**	**1**
105-106	**Private instruction in minor performance area, Elementary Education students with a concentration in music**	**1**
107-109	**Private instruction in major performance area, Elementary Education students with a concentration in music**	**1**
111-412	**Private instruction in major performance area, Music Education program**	**1**
413	**Elective credit for senior recital, accompanying, or other extra participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student- teaching semester by permission of the department.**	**1**
121-422	**Private instruction for Music Education students with Advanced Standing**	**1**
131-432	**Private instruction in major performance area, B.A. program**	**1 or 2**
141-442	**Private instruction in major performance area, B.Mus. program**	**2**

DIC 111 English-Italian Diction (3) English, Italian, and Latin diction for singers. Use of phonetics with application to singing of selected songs.

DIC 112 French-German Diction (3) French and German diction for singers. Use of phonetics with application to singing of selected songs.

MXC 111 Mixed Chorus (1/2-1) Designed to acquaint the student with choral literature for Mixed Chorus, Women's Chorus, and Men's Chorus. Program performance included.

CHC 111 Chamber Choir (1/2) Performance of music of the Renaissance and Baroque Period. The performing choir is selected by audition

MCL 111 Madrigal Class (1) Performance techniques in the music of the Renaissance. Requirement for students in the Vocal-Choral concentration of the B.S. in Music Education program; may be met by Chamber Choir.

OPC 111 Opera Chorus (1/2) An elective course devoted to the training of a choral group which participates in opera or operetta productions. May not be used to satisfy choral credits. Membership by audition.

CHO 111/311 Choir (1/2-1) Designed to give the student a wide association with the choral literature for mixed chorus. Music of high-school level as well as more difficult literature.

CCH 111/311 Concert Choir (1/2-1) Devoted to acquiring a fine technique in choral singing through the preparation of programs for performance. Membership by audition.

WGC 111 Women's Glee Club (1/2) An opportunity for non-music students to learn the choral literature for women's chorus. Membership by audition.

CCO 311 Choral Conducting I (2) A practical application of conducting and vocal techniques in choral direction through practice in conducting a choral group.

CCO 312 Choral Conducting II (2) Continued development of conducting techniques with stress on conducting of polyphonic choral music and on the musical styles of the various choral periods. PREREQ: CCO 211.

MAV 311 Master Class (Voice) Baroque Period (1)

MAV 312 Master Class (Voice) German Lied (1)

MAV 313 Master Class (Voice) French Melodie (1)

MAV 314 Master Class (Voice) 20th Century Art Song (1)

OPW 421 Opera Workshop I (2) A study of the arts and crafts required in a musical production; coaching, set designing and construction, stage movement, and costuming.

OPW 422 Opera Workshop II (2) Major roles in short productions and minor roles in extended productions. By audition.

OPW 423 Opera Workshop III (2) Continuation of OPW 422. By audition.

OPW 424 Musico-Dramatic Production I (3) Major roles and/or major responsibilities in extended productions. By audition.

OPW 425 Musico-Dramatic Production II (3) Continuation of OPW 424. By audition.

DEPARTMENT OF INSTRUMENTAL MUSIC

Edward A. Barrow, Chairperson; *Boerlin, Brueninger, Cohen, Goebel, Guidetti, Hegvik, Klein, Laudermilch, Moss, Roper, Southall, Swartley, and Staff.*

NUMBERING SYSTEM

Private and class lessons given to the Department of Instrumental Music are shown by the following numbers, together with the appropriate prefix:

VLN—Violin	ENH—English Horn	TPT—Trumpet
VLA—Viola	CLT—Clarinet	TRB—Trombone
VCL—Cello	SAX—Saxophone	BAR—Baritone
BAS—Bass	BSN—Bassoon	TBA—Tuba
FLU—Flute	HRP—Harp	PER—Percussion
OBO—Oboe	FRH—French Horn	

Course Number		Semester Hours
001-002	**Class instruction for Music Education majors in the playing and teaching of the above instruments (Except VLN 001-002: 1 credit each)**	**1/2**
101-402	**Private instruction in minor performance area**	**1**
105-106	**Private instruction in minor performance area, Elementary Education students with a concentration in music**	**1**
107-109	**Private instruction in major performance area, Elementary Education students with a concentration in music**	**1**
111-412	**Private instruction in major performance area, Music Education program**	**1**
413	**Elective credit for senior recital, accompanying, or other extra participation in concerts or recitals, or extra study of literature. Available to Music Education seniors only during the non-student- teaching semester by permission of the department.**	**1**
121-422	**Private Instruction for Music Education students with advanced standing**	**1**
131-432	**Private instruction in major performance area, B.A. program**	**1 or 2**
141-442	**Private instruction in major performance area, B.Mus. Program**	**2**

BRC 001 Brass Class (1/2) Class instruction in French horn, trombone, and tuba

DRC 001 Double-reed Class (1/2) Class lessons in the playing and teaching of the oboe and bassoon on an elementary level for music education majors.

WWC 001 Woodwind Class (1/2) Class instruction in flute, oboe, and bassoon.

SEN 111 String Ensemble (1/2) Principles of ensemble playing through the performance of various types of chamber music.

WEN 111 Woodwind Ensemble (1/2) Principles of ensemble playing through the performance of various types of chamber music.

BEN 111 Brass Ensemble (1/2) Principles of ensemble playing through the performance of various types of chamber music.

PEN 111 Percussion Ensemble (1/2) Principles of ensemble playing through the performance of compositions limited to instruments of the percussion family.

ELO 111 Elementary Orchestra (1/2) Music for the beginning orchestra through performance. Emphasis on beginners' problems, organization, and techniques of string performance.

SYO 111/311 Symphony Orchestra (1) Emphasis on performance of a wide variety of orchestral literature for concerts, accompanying student soloists, opera, and oratorio.

OST 111 Orchestral String Techniques (1/2) Additional exposure to string orchestra literature and study of idiomatic string problems within regular orchestra parts.

ELB 111 Elementary Band (1/2) Music for the beginning band through performance. Emphasis on beginners' problems, organization, and techniques of wind and percussion playing

CBA 111/311 Concert Band (1/2-1) Performance of the band literature suitable for junior high and senior high levels.

MBA 111/311 Marching Band (1/2-1) Program building, balance, and rehearsal techniques are stressed. Members participate in marching band activities. The Marching Band performs precision and theme drills at football games and plays for community and college functions.

SBA 111/311 Symphonic Band (1/2-1) The Symphonic Band emphasizes performance of a variety of band literature: standard repertoire, recently published compositions, and selections from festival lists.

WIN 111/311 Wind Ensemble (1/2-1) A band of 50 or 60 members composed of outstanding campus wind instrumentalists and percussionists. The ensemble performs difficult music selected mainly from contemporary works.

ICO 311 Instrumental Conducting I (2) Development of conducting skills and techniques, score reading, and terminology. Works from the late 18th century are studied and conducted

ICO 312 Instrumental Conducting III (2) Continued development of conducting skills and score reading of more advanced music literature. Works from the Romantic and Contemporary Periods are studied and conducted. PREREQ: CCO 211 or ICO 311

MAS 311-314 Master Class (Strings) (1) Standard repertoire for combinations of string instruments, including trios, quartets, quintets, and other groups involving piano, organ, and other instruments.

MAW 311-314 Master Class (Woodwinds) (1) Repertoire from the Baroque Period to the present performed by ensembles of woodwind instruments. Solos are performed and discussed.

MAB 311-314 Master Class (Brasses) (1) Repertoire for brass solo, homogeneous ensemble, and mixed ensemble is performed and discussed.

MAP 311-314 Master Class (Percussion) (1) Repertoire for solo and ensemble music for percussion is performed and discussed.

Nursing

Malinda Murray
Chairperson

ASSOCIATE PROFESSORS: Murray, Schoel
ASSISTANT PROFESSORS: Devlin, Ellett, Kline, Matz, Sell, Swope
INSTRUCTORS: Garrett, Harrison, Slaninka, Woodward

BACHELOR OF SCIENCE IN NURSING

The Bachelor of Science degree program in nursing is offered by the Department of Nursing, which is an integral part of the School of Sciences and Mathematics. The family-centered program is based upon the concept that man in totality is a bio-psychosocial being with basic health needs. The Department of Nursing believes that quality health care is a basic right of all people and that man's health care needs can more adequately be met through the preparation of the professional nurse who completes courses in the social and natural sciences, humanities, and the nursing major.

Characteristics of the graduate include: 1) an awareness and sense of responsibility for contemporary social issues; 2) concern for improvement of health care within society through professional citizen activities; 3) competency in utilizing the nursing process to assist clients at various adaptational levels and development stages in a variety of settings; 4) collaboration, coordination and consultation as a colleague within the interdisciplinary health team; 5) belief in learning as a life-long process; 6) utilization of the scientific method to make decisions based upon predictable and unpredictable results in providing health care; 7) participation in the change process by collection of data applying to nursing theories and practice.

SPECIAL REQUIREMENTS

Nursing candidates are admitted once a year, in September.

Nursing students are required to supply their own transportation to clinical facilities.

Insurance Requirements. Students are required to carry liability insurance during the junior and senior year at a yearly cost of approximately $15.

Uniforms. Students must purchase uniforms costing approximately $100 at the end of their sophomore year.

HEALTH REQUIREMENTS

Nursing candidates must meet the general health requirements of all students at West Chester State College for the freshmen and sophomore years. Candidates must meet the following health requirements the summer prior to the junior and senior years: Inoculations against smallpox, diphtheria, typhoid, tetanus and poliomyelitis (a series of four); a complete physical examination which must include a complete blood count, blood serology, chest x-ray, urinalysis, dental and eye examinations, and any other diagnostic tests deemed necessary.

POLICY—ACADEMIC PROMOTION REGULATIONS (STUDENT)

Incompletes, Failures, and D Grades

All nursing students who have a grade of incomplete, D, or F in a required course during the freshman and sophomore level must repeat these courses and achieve a satisfactory grade (C or above) before entering the junior level nursing major courses

A student must achieve a grade of C or better in the nursing major in the junior year for promotion to the senior year and achieve at least a C in the senior year for graduation.

If a student must repeat a nursing course, a grade of C or better must be achieved. Non-achievement of at least a C in such cases is considered grounds for dismissal from the nursing major

Core Requirements*

PSY 100, PSY 210, ENG 121, 240, SOC 200, BIO 100, CHE 103-104, CHL 103-104, BIO 209-309, BIO 214, CHE 230, PSY 375, BIO 307, CHE 404, SOC 240, PSY 245, or MAT 121

*Some of these courses may be used to satisfy general requirements

Nursing Concentration Requirements

NSG 212, NSG 311-312, NSG 411-412. A total of 128 credits are required for graduation

INTERNAL TRANSFER POLICY

Purpose: To delineate procedures through which students presently enrolled at West Chester State College may transfer into the nursing curriculum

Procedure: Students requesting an internal transfer should register with the department chairperson, obtain a copy of the requirements of the nursing curriculum, and bring a copy of academic record at the end of each semester to the Nursing Office to become a part of the pre-transfer record

Policy:

1. Internal transfers will be limited annually to the number that the department can accommodate in a sound educational experience. This number will be determined by such factors as: attrition of nursing students in the program, number of faculty available for clinical supervision and number of clinical assignments available to the students.
2. From among the pool of qualified applicants the department will select that number as determined by (1) above from those best qualified academically based on their science grades (C or above) and overall GPA (2.00 or above). Both these values will be given equal weight in evaluating the student.
3. Transfer applications will be accepted one week after the end of the spring semester of the year the applicant will have completed satisfactorily (C or above) all requirements (freshman and sophomore) for the nursing curriculum. Notification of transfer into the nursing major will be given by July 1 of the same year.

COURSE DESCRIPTIONS

Symbol: NSG

212 Nursing Theories and Concepts. (3) Sophomore Year. Nursing theories and concepts, conceptual frameworks, theories from other disciplines which may apply to nursing, and the nursing process are studied in this course.

311 Adaptation I. (10) Junior year, fall semester. The emphasis of this course is the prevention of illness and promotion of health by assessment of the health status, appropriate intervention, and evaluation of the health promotion plan. The nursing process provides the framework for promotion of wellness in a variety of settings with clients of any age group. Clinical experiences are provided in agencies where relatively well populations have been

identified, such as schools, nursery schools, well baby clinics, health maintenance clinics, etc. PREREQ. NSG 212.

312 Adaptation II. (10) Junior year, spring semester. The emphasis of this course is on the maintenance of health and promotion of adaptive responses in clients with chronic health problems. The nursing process is used to assist these clients to adapt to stressors through supportive therapeutic, palliative, and preventive measures. Clinical experience is provided in settings where clients with chronic health problems have been identified. These settings include rehabilitation centers, a child development center, nursing homes, and acute care settings. These environments provide flexibility for students to implement changes for clients and acquire skills which will be utilized in other nursing courses. PREREQ: NSG 311.

411 Advanced Adaptational Problems I. (10) Senior year, fall semester. The emphasis of this course is on the study of adaptive responses that create new stresses which require additional adaptations and frequently interrupt an individual's mode of functioning. The nursing process is used to assist clients in crisis. Clinical experience is provided in acute care settings, in psychiatric inpatient settings, and in community health settings. PREREQ: NSG 312.

412 Advanced Adaptational Problems II. (11) Senior year, spring semester. NSG 412 is a continuation of NSG 411 with the emphasis on the subconcepts of decision making and advocacy. The nursing process is utilized interdependently in approaching multi-health care problems of clients. Special attention is given to inquiry as the student correlates nursing theories and concepts with identifiable research problems in varied environments. Opportunity is provided in this semester to develop organization and management skills. PREREQ: NSG 411

Philosophy

George S. Claghorn,
Chairperson

PROFESSORS: Claghorn, Hipple, Platt, Riukas, Streveler, Struckmeyer
ASSOCIATE PROFESSORS: Banyacski, Croddy, Williams

BACHELOR OF ARTS—PHILOSOPHY

The aims of philosophy are to familiarize the student with our intellectual heritage, to promote clear thinking, and to encourage an understanding of other people. As philosophy analyzes and relates many disciplines, it is general education in the broadest sense. The philosophy major is standard preparation for opportunities in business and industry, particularly in connection with computers. It leads also to government posts dealing with personnel, problem-solving, and work with other cultures. Philosophy is recommended for pre-law and pre-seminary students. This program opens the way to graduate work and to careers in college teaching.

BACHELOR OF ARTS—PHILOSOPHY

Concentration: Philosophy

1. General Requirements, see page 70. PHI 101, one course in political science and one in history are to be taken either under general requirements or as cognate requirements.
2. Foreign Language Requirements: courses through the second year of a foreign language, or equivalent proficiency.

3. Arts and Letters Core, see page 72.
4 Philosophy Concentration Requirements: 24 hours, including PHI 180, 190, 270, 272, and 499. PHI 374 is recommended
5. Free Electives: 45 hours.

Concentration: Religious Studies

1. General Requirements, see page 70. PHI 102 and one course in political science and one in history are to be taken either under general requirements or as cognate requirements.
2. Foreign Language Requirements: courses through the second year of a foreign language, or equivalent proficiency.
3. Arts and Letters Core, see page 72.
4. Religious Studies Concentration Requirements: 24 hours, namely, PHI 261, 271, 276, 277, 278, 349, and SOC 344
5. Free Electives: 45 hours

COURSE DESCRIPTIONS

Symbol:PHI

Note: Only PHI 399 and 499 have prerequisites. All other philosophy courses are non-sequential and open to all students. Not all courses will be offered every year

INTRODUCTORY COURSES IN PHILOSOPHY AND RELIGION

101 Introduction to Philosophy (3) The chief problems and methods of philosophic thought, with a survey of some typical solutions. The place and influence of philosophy in the life of man today. Offered every semester.

102 Introduction to Religious Studies (3) The role of religion in human life. Illustration drawn from various traditions, rituals, and belief patterns, both ancient and modern.

150 Critical Thinking and Problem Solving (3) Introduction to the principles of valid inference and effective thinking. Problem solving; puzzles; games; decision-making; the syllogism; probability; logical fallacies; creative thinking.

180 Introduction to Ethics (3) Great ethical systems of history and their application to personal and social life. The right and the good, the nature of values, and critical ethical dilemmas.

COURSES IN THE HISTORY OF PHILOSOPHY

270 History of Ancient Philosophy (3) A survey of the major figures of ancient philosophy, from the pre-Socrates through Plato, Aristotle, the Epicureans, and Stoics, to the Skeptics and Neo-Platonists Offered in fall.

271 History of Medieval Philosophy (3) The history of philosophy from the early Church fathers to the late Middle Ages. St. Augustine, St. Thomas, mysticism, Jewish and Mohammedan influences, humanism, and the rise of science.

272 History of Modern Philosophy (3) From Descartes to Hegel The social, political, and scientific impact of the philosophers. Offered in spring.

273 19th Century Philosophy (3) Hegel and German Idealism; decisive influences on European and American literature and thought. Survey of the chief themes of Schopenhauer, Comte, Mill, Spencer, Marx, Kierkegaard, Darwin, and Nietzsche.

274 Contemporary Philosophy (3) Philosophic trends since 1850, including the process philosophy, Pragmatism, Positivism, Existentialism, and the Analytic School

284 American Philosophy (3) Leaders in science, literature, religion, and government who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism.

375 Existentialism (3) The rise and development of Existentialism. Chief exponents; views of man; influence on ethics, literature, and social action.

COURSES ON PHILOSOPHICAL TOPICS

190 Logic (3) The art of critical thought and of sound reasoning. Formal and classical logic; propaganda; introduction to the scientific method. Offered every semester.

201 Contemporary Issues (3) Discussion and analysis of contemporary philosophical issues of particular concern to students, such as death, personal identity, environmental ethics, and human labor. The topic varies from semester to semester.

330 (also LIN 330) Introduction to Meaning (3) Relationship between linguistics and philosophy, with emphasis on meaning in language. Some issues in the theory of meaning from both linguistics and philosophy; materials from each field to help solve these issues.

360 (also LIN 360) Philosophy of Language (3) Questions of meaning in communication. Emphasis on contemporary discussions of theories of natural language.

374 Aesthetics (3) Interpretation of beauty and art. Effects of motivation; problems in media and in goals. A background of meaning for the evaluation of specific works of painting, sculpture, music and architecture.

382 Social Philosophy (3) The relation between man and the state, especially as seen by recent thinkers. Justice, natural rights, political obligation, freedom, and equality.

483 Philosophy of History (3) Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern.

486 Philosophy of Religion (3) Religion and the religious experience as viewed by major Western thinkers. The existence of God, immortality, religious knowledge, evil, miracles, and science and religion.

487 Philosophy of Science (3) The nature of scientific method and scientific theory, with reference to presuppositions, inference, explanation, prediction, applications, and verification.

488 Theory of Knowledge (3) Theories of truth, perception, and understanding. Classic and contemporary discussions on the nature of the self, in relation to the known world.

COURSES IN RELIGION

261 Indian Thought (3) The religious and philosophical heritage of India, from Vedic times to the present. Examination of major classics, such as Rig Veda, Upanishads, Bhagavad-Gita, and Yoga-sutras, with some attention also to recent writers such as Tagore, Gandhi, and Radhakrishnan.

262 Chinese and Japanese Thought (3) A survey of Far Eastern philosophy, religion and scientific thought. Confucianism, Taoism, and the various schools of Mahayana Buddhism, including Zen, are given primary emphasis.

276 History of Hebrew Thought (3) Hebrew concepts of God, man, and the universe, Biblical origins; Philo; the Rabbinic writings; medieval traditions and interpretations; Maimonides, Spinoza, Mendelssohn, and Buber; contemporary problems.

277 History of Christian Thought (3) Christian views of God, man, society, culture, and their interrelations. Classic controversies, such as faith and reason, culture and faith, determination and freedom.

278 Comparative Religion (3) A study of selections from the primary sources of the world's living religions. Concepts of God, man, society, and Nature. The relation of these writings to each other; their impact on contemporary world culture.

349 Ideas of the Bible (3) An introduction to Biblical concepts of revelation, God, Nature, man, and redemption, in the light of Hebrew and Greek thought.

486 Philosophy of Religion (3) See "Courses in Philosophical Topics," above.

INDEPENDENT STUDIES AND SEMINARS

399 Seminar in Philosophy (3) An in-depth study of a man or topic in philosophy. Open to all. PREREQ: 6 hours of philosophy or permission of instructor.

410 Independent Studies III (1-3)

499 Senior Seminar in Philosophy (3) An intensive study of some major theme of philosophy. Required of philosophy majors. PREREQ: 6 hours of philosophy and senior standing, or permission of instructor. Offered in spring.

Physics (Pre-Engineering)*

Harold L. Skelton,
Chairperson

PROFESSORS: Rickert, Smith, Yarosewick
ASSOCIATE PROFESSORS: Hawkes, Kaplan, Skelton

The Department of Physics at West Chester State College offers three programs leading to the Bachelor of Arts in Physics, the Bachelor of Science in Education, and a cooperative five year program with Pennsylvania State University leading to a B.A. in Physics from West Chester State College and a B.S. in Engineering from Pennsylvania State University.

BACHELOR OF ARTS—PHYSICS

The physics program at West Chester is designed to prepare young men and women for useful careers whether they intend to continue their education in graduate school or seek a position in government or industry. The curriculum includes a strong foundation in mathematics and the humanities, as well as physics which is structured on an experimental as well as theoretical basis. A wide choice of electives in the B.A. program provides the flexibility to develop a concentration in some specific area of interest. Two such area concentrations have already been developed by this department with the aid of faculty from the department of earth science and the computer science group.

A) Computer Science Area. The student uses electives from his program to complete the following sequence of courses: CSC 241, CSC 361, CSC 371, MAT 221, and MAT 425.
B) Geology-Geophysics Area. In this program, electives are used to complete the sequence of courses: ESS 201, ESS 211, ESS 302, ESS 305 or ESS 311, ESS 340 and ESS 320.

General program requirements for the B.A. degree in Physics include:

1. Physics Concentration Requirements — 72 s.h.
   A. PHYSICS: PHY 101-102, 212, 233, 251-252, 414, 421, 423, 440, 451; an additional 12 s.h. in physics must be chosen from available electives
   B. MATHEMATICS: MAT 141-142, 241-242, 343, CSC 104

*Check department for new engineering courses.

C. CHEMISTRY: CHE 103-104, CHL 103-104

2. Electives 6 s.h.

Candidates for the B.A. degree in physics must meet the foreign language requirements which applies to all candidates for the B.A. degree. See page 71. The general requirements of the college, given on page 70, must also be met

In physics the acceptable languages are French, German, or Russian.

BACHELOR OF SCIENCE IN EDUCATION—PHYSICS

The B.S. program in physics education provides a solid background in physics, mathematics, and related science for a teaching career at the secondary level and leads to certification to teach physics in the public schools of Pennsylvania

1. Professional Education Requirements 29 s.h.
   See page 215

2. Physics Concentration Requirements 56 s.h.
   A. PHYSICS: PHY 101-102, 212, 233, 251-252, 421, 423, 451
   B. MATHEMATICS: MAT 141-142, 241; MAT 343 or PHY 415
   C. SCIENCE: CHE 103-104; CHL 103-104; Astronomy elective; biology elective

See page 70 for the general requirements of the college

BACHELOR OF ARTS—PHYSICS—BACHELOR OF SCIENCE— ENGINEERING

The Department of Physics offers a cooperative engineering program with the Pennsylvania State University requiring three years in residence at West Chester State in a liberal arts curriculum plus two years in residence at Pennsylvania State University for study in engineering At the end of this period the student receives two baccalaureate degrees; a B.A. from West Chester and a B.S. from Penn State.

Areas of study in engineering are:

Aerospace Engineering
Agricultural Engineering
Ceramic Science
Chemical Engineering
Civil Engineering
Electrical Engineering
Engineering Science
Environmental Engineering
Industrial Engineering
Mechanical Engineering
Metallurgy
Mining Engineering
Nuclear Engineering
Petroleum and Natural Gas Engineering

Program Requirements

A) PHYSICS: PHY 101-102, 212, 233, 251-252, 414, 423

B) MATHEMATICS: MAT 141-142, 241-242, 343, CSC 141

C) CHEMISTRY: CHE 103-104, CHL 103-104

Numbers in bold face type are equivalent to PENN STATE COURSES. Students intending to enroll in chemical engineering must have in addition CHE 231 and 232; in nuclear engineering, aerospace, or chemical engineering they must have PHY 432 and MAT 343.

COURSE DESCRIPTIONS

Symbol: PHY unless otherwise shown (2-2) represents 2 hours lecture and 2 hours lab.

101 Physics I (4) An introductory course. Mechanics of solids and fluids, heat, temperature, thermodynamics, the kinetic theory, and wave motion. (2-2, 2 hours recitation) CONCURRENT: MAT 141 or MAT 161.

102 Physics II (4) An extension of PHY 101. Electricity and magnetism, geometrical and physical optics, and modern physics. (2-2, 2 hours recitation) PREREQ: PHY 101 Concurrent or MAT 142 or MAT 162.

103 General Physics I (4) An introductory non-calculus physics course. Mechanics of solids and fluids, wave motion, heat and temperature, thermodynamics, and kinetic theory. (3-2) PREREQ: algebra and trigonometry.

104 General Physics II (4) An extension of PHY 103. Electricity and magnetism, geometrical and physical optics, and modern physics. (3-2) PREREQ: PHY 103.

110 Acoustics for Speech and Hearing (3) Interference and transmission of sound waves. Measurements of sound, standard scales, acoustic pressure, intensity, use of oscilloscope.

111 Physics and Anti-Physics (3) Relativity neutron stars, pulsars, black holes, quarks to quasar's; controversial and thought-provoking ideas of twentieth century physics. PREREQ: high school physics or equivalent.

212 Mechanics (3) Kinematics and dynamics of particles and rigid bodies, work and energy, harmonic oscillations. PREPRE: PHY 102, MAT 142.

233 Introduction to Modern Physics (3) Special relativity, quantum effects, atomic structure and spectra, nuclear structure and reactions PREREQ: PHY 102 or 104, MAT 142 or 132.

251 Intermediate Physics Laboratory I (1) A course to familiarize students with laboratory equipment and methods.

252 Intermediate Physics Laboratory II (1) A continuation of PHY 251.

320 Fundamentals of Radioisotope Techniques (3) Biological, chemical, environmental, and physical effects of nuclear radiation. Radiation detection instrumentation and radio tracer methodology. (2-2) PREREQ: CHE 104 and PHY 102 or PHY 104

413 Analytical Dynamics (3) Wave propagation, Lagrange's equations and Hamilton's principle, rigid body motion, and special relativity. PREREQ: PHY 212, MAT 343.

414 Heat and Thermodynamics (3) Equations of state, first and second laws of thermodynamics, ideal and real gases, entropy, and statistical mechanics. PREREQ: PHY 102 or 104.

415 Mathematical Physics I (3) Selected topics in mathematics applied to problems in physics, ordinary differential equations, complex variables, hyperbolic functions, vector calculus, and numerical analysis. PREREQ: MAT 241 and PHY 102 or 104

421 Electricity and Magnetism I (3) Electrostatics of point charges and extended charge distributions, fields in dielectrics, magnetic fields due to steady currents Ampere's Law, and induced emfs. PREREQ: PHY 102 or 104.

422 Optics (3) Geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, polarization PREPREQ: PHY 102 or 104

423 Electronics (4) Laboratory study of standard electronic circuits—amplifiers, oscillators, power supplies, test circuits. Some theory of solid state. (1-6) PREREQ: PHY 102 or 104.

430 Atomic Physics and Quantum Mechanics (3) Fundamental concepts at quantum mechanics with application to atomic physics. Topics covered are Bohr model, Schrodinger equation with applications, perturbation theory, helium atom, and scattering theory. PREREQ. PHY 102, MAT 261 or 241, and one intermediate course in physics and/or chemistry.

432 Introduction to Nuclear Physics (4) Basic nuclear properties, nuclear structure and reactions. (3-3) PREREQ: PHY 233.

440 Introduction to Research (1 to 3) Specific problems in consultation with the faculty adviser. PREREQ: consent of instructor.

444 Seminar in Physics (1) Oral and written reports on approved topics Variation in topics from year to year depending on the interest and needs of students

451 Advanced Physics Laboratory I (1) A course to familiarize students with contemporary laboratory equipment and methods.

452 Advanced Physics Laboratory II (1) A continuation of PHY 451.

SCIENCE

Symbol: SCI

100 Elements of Physical Science (3) A study of motion, energy, light, and some aspects of modern physics stressing a conceptual and historical understanding, and the development of scientific process skills

151 Problems of Our Physical Environment (3) Energy shortage, methods of energy conversion, possibilities and limitations, transportation—alternatives to the automobile, pollution.

Political Science—See Government and Politics

Pre-Professional Program

Philip B. Rudnick, *Coordinator*

Comittee Members
Carmela Cinquina, *Biology*
Thomas DeMott, *Biology*
Marc Durand, *Chemistry*
Margaret Martinez, *Biology*
Robert Weiss, *English*
Stanley Yarosewick, *Physics*

The Pre-Professional Program prepares students for admission to health professional schools of medicine, dentistry, veterinary medicine, podiatry and optometry. It consists of a chemistry-biology dual major curriculum, and intensive personal counseling beginning in the freshman year. The program is supervised by a Pre-Professional Committee. Students with majors other than chemistry-biology are required to have two advisors-one from their major field and one from the Pre-Professional Committee.

Because of the intense competition for health professional school admission, only academically talented and highly motivated students should apply to the Pre-Professional Program. Applicants are evaluated on the basis of their potential for achievement in the program. Students in the program are required to maintain a minimum 3.0 grade point average.

All West Chester students who wish to apply to health professional school should ask their professors to forward letters of recommendation to the Pre-Professional Committee and should process their application through the committee. The committee will send a composite letter of evaluation to the professional school. No letters of recommendation should be sent directly to professional schools.

CONCENTRATION AND CORE REQUIREMENTS FOR PRE-PROFESSIONAL CURRICULUM

BACHELOR OF SCIENCE—CHEMISTRY-BIOLOGY

BIOLOGY:
BIO 110, 117, 330, 348, 357, 361
CHEMISTRY:
CHE 103, 104, 231, 232, 321, 345, 471
CHL 103, 104, 237, 345
MATHEMATICS:
MAT 121, 161, 162
CSC 101
PHYSICS:
PHY 103, 104
Concentration electives totaling 4 credits

See also Biology and Chemistry

Psychology

Jay L. Clark,
Chairperson

PROFESSORS: Bartholomew, Clark, Morse, Porter, J., Sands
ASSOCIATE PROFESSORS: Cohen, Eldredge, Jackman, Porter, L., Shinehouse
ASSISTANT PROFESSORS: Crawford, Pollak

The psychologist endeavors to apply scientific methods to explain, predict, and in some cases control human behavior. A B.A. degree in psychology prepares the student to understand those variables, such as heredity, learning, and the environment, which shape and change behavior. Careers are possible in clinics, guidance centers, industry, hospitals, schools, and government.

The B.S. in Education program prepares students to teach the social sciences in the secondary schools.

BACHELOR OF ARTS—PSYCHOLOGY

1.	General Requirements, see page 70	44 s.h.
2.	Foreign Language Requirement, see page 71	6 s.h.
3.	Social Science Core Requirements, see page 72	21 s.h.
4.	Psychology Requirements	33 s.h.
	a. Required Psychology Courses (21 s.h.) PSY 245, 246, 354, 356 or 357, 364, 375, 400	
	b. Psychology Electives (12 s.h.)	
5.	Free Electives	24 s.h.

BACHELOR OF SCIENCE IN EDUCATION

COMPREHENSIVE SOCIAL STUDIES: PSYCHOLOGY (concentration)

1	General Requirements, see page 70	44 s h
2	Social Science Core Requirements, see page 72	21 s h
3	Professional Education Requirements, see page 215	29 s h
4	Specialized Preparation	33 s h
a	Seminar in Social Science (3 s h.) PSY 400 if interdisciplinary seminar is not offered	
b	Psychology Requirements (15 s h.) PSY 245, 354, 356 or 357, 364, 375	
c	Social Science Requirement (9 s h.) (In addition to Social Science Core)	
d	Advised Cognates (6 s h.)	

COURSE DESCRIPTIONS

Symbol: PSY

100 Introduction to Psychology (3) Introduction to the scientific study of behavior. The multiple bases of human behavior with emphasis on the learning process. Basic concepts, principles, and methodology. Offered fall, spring and summer.

210 Developmental Psychology I (3) A survey of research findings and theoretical issues related to developmental processes from the prenatal phase to senescence. PREREQ: PSY 100. Offered fall and spring.

245 Research Methods and Statistics I (3) Experiments on selected problems, with emphasis on techniques in the design and execution of experiments and on the application of elementary statistical techniques to the collection, analysis, and interpretation of data. PREREQ: PSY 100. Offered fall and spring.

246 Research Methods and Statistics II (3) Continuation of PSY 245 with emphasis on more advanced experimental designs and statistical techniques. PREREQ: PSY 245. Offered fall and spring.

270 Mental Hygiene (3) Application of principles of psychology to problems of individual adjustment. Processes of coping used by normal persons in everyday life. PREREQ: PSY 100. Offered fall and spring.

350 Motivation (3) A study of drives, motives, and emotions as determinants of behavior. Physiological and social aspects of motivation will be explored with some attention given to pathological factors. PREREQ: PSY 100. Offered fall or spring.

354 Social Psychology (3) The study of the ways in which the individual is affected by the actual, imagined or implied presence of others. PREREQ: PSY 100. Offered fall and spring.

356 Study of Personality (3) An introduction to the dynamics of personality functioning. Topics such as self-esteem, stress, conflict, frustration, and defense will be explored. PREREQ: PSY 100. Offered spring.

357 Theories of Personality (3) An advanced course in personality which examines the theories and writings of Freud, Jung, Adler, Fromm, Erikson, Rogers, and other major personality theorists. PREREQ: PSY 100. Offered fall.

361 Applied Psychology (3) Basic psychological principles as applied to industry, engineering, and other professions. PREREQ: PSY 100.

362 History and Systems of Psychology (3) An integrated overview of the history of psychology as well as the systems, theories and fundamental issues with which psychologists have concerned themselves in the past, recent, and the current stage of the science. PREREQ: PSY 100. Offered fall or spring.

363 Psychology of Learning (1-2: one hour lecture, 2 hours lab) Basic laws and theories of

learning. Selected laboratory experiments with animal and human subjects illustrating fundamentals of learning. PREREQ: PSY 245. Offered fall.

364 Physiological Psychology (3) Anatomical, endocrinological and physiological processes underlying behavior, including motivation, emotion, learning and memory. PREREQ: PSY 100, BIO 100 or 110. Offered fall and spring.

365 Industrial Psychology (3) A basic course for business majors. Emphasis on theoretical developments in psychology as these relate to study of people in organizations and industry. Offered fall and spring.

375 Abnormal Psychology (3) The nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychoses, the psychopathic personality and mental deficiency. PREREQ: 6 s.h. in psychology and junior or senior standing. Offered fall and spring.

382 Developmental Psychology II—Infancy and Childhood (3) An advanced study of the normal child from conception to puberty. Emphasis on current theoretical issues involved in the effects of early experience and environment. PREREQ: PSY 100. Offered spring odd years.

383 Developmental Psychology III—Adolescence (3) An advanced study of the psychological development of the young person from puberty to adulthood, emphasizing the developmental problems of reaching maturity. PREREQ: PSY 100. Offered fall.

384 Developmental Psychology IV—Adulthood and Aging (3) An advanced study of psychological development during the mature years and senescence. PREREQ: PSY 100. Offered spring, even years.

390 Principles of Counseling and Psychotherapy (3) A review of theoretical assumptions underpinning various approaches to counseling and psychotherapy, with particular reference to comparative outcome data. PREREQ: PSY 357 and 375 or permission of the instructor. Offered fall or spring.

400 Senior Seminar in Psychology (3) Advanced topics in psychology. A written and/or oral presentation describing and analyzing current issues in psychology. Required of all psychology majors. Offered fall and spring.

410 Independent Studies in Psychology (1 to 3) Special research projects, reports, readings in psychology. Open to seniors only. PREREQ: permission of department chairperson. Offered fall and spring.

415 Verbal Behavior (3) Methods, materials and theoretical issues in the study of verbal behavior and verbal learning. Serial, paired-associate, and free-recall learning; effects of language habits and "higher-order" processes—such as coding behavior—on memory, transfer, and the acquisition of verbal habits. PREREQ: PSY 100.

425 Psychological Testing and Measurement (3) Principles of psychological measurement including standardization, scale transformation, reliability, validity, and item-analysis. Use of tests for the solution of problems in industrial, business, and educational settings. PREREQ: PSY 100. Offered fall and spring.

427 Behavior Modification (3) A survey of the principles and practices employed in inducing behavioral changes in clinic, institution, agency, and school settings. PREREQ: PSY 363 or permission of instructor. Offered spring.

430 Human Sexual Behavior (3) An intensive study of those variables under which human sexual behavior functions. Research from sociological and medical studies is integrated with psychological knowledge. PREREQ: 6 hours in psychology and junior or senior standing. Offered fall and spring.

435 Animal Behavior (3) The evolution and adaptiveness of behavior. Emphasis on physiological, genetic and learning processes underlying animal behavior. PREREQ: PSY 100 or permission of instructor. Offered fall or spring.

441 Field Experience in Psychology I (3) A work-study program in an educational or mental health facility under joint supervision of the instructor and the staff psychologists of the

field institution. PREREQ: Senior standing and permission of instructor. Offered fall and spring.

442 Field Experience in Psychology II (3) Continuation of PSY 441.

443 Psychology of Group Processes (3) A survey of psychological group processes, tracing the origins and historical development of the major contributing theoretical orientations. PREREQ: PSY 100. Offered fall or spring.

444 Community Psychology (3) The current development of a new specialization in psychology—community consultation and community practice. PREREQ: PSY 100.

465 Psychology of Women (3) A study of the behavior and experience of women. Biological, cultural, interpersonal and intrapersonal determinants of women's actions, thoughts and feelings will be explored. PREREQ: PSY 100. Offered fall and spring.

470 Sensory and Perceptual Processes (3) Theory, data, and methodology of sensory and perceptual processes. PREREQ: PSY 100. Offered fall, even years.

475 Cognitive Psychology (3) Study of higher order mental processes with emphasis on the relationships of these functions to personality, motivation, emotions, and environmental influences. PREREQ: PSY 100.

490 Topical Seminar in Psychology (1-3) Special topics in psychology not covered under existing regularly offered courses. Offered fall or spring.

Reading

Jane K. Gelfand,
Chairperson

PROFESSORS: Gelfand, Hall
ASSOCIATE PROFESSORS: Christensen, Keetz
ASSISTANT PROFESSORS: Salup, Szabo

The major focus of West Chester's program in reading is at the graduate level See the Graduate Bulletin for details. The following undergraduate courses are also available through the Department of Reading:

COURSE DESCRIPTIONS

Symbol: EDR

100 Reading and Study Skills (3) An individualized course to develop reading and study skills such as comprehension, vocabulary, speed, remembering, concentration, taking notes, mastering a text assignment, preparing for and taking examinations. Offered fall and spring semesters

320 Reading in the Content Areas (3) Understanding the reading process and the need for reading instruction at the middle and secondary school level; specific skill development; reading in the content areas; readability; evaluation. Offered fall and spring semesters.

321 Diagnosis and Remediation of Reading Problems (3) Identifying the nature and causes of reading disabilities; experience in helping a child with reading problems. Offered fall and spring semesters. PREREQ: EDE 311 or permission of instructor.

323 Reading for the Handicapped: Diagnosis and Remediation (3) Reading materials, programs, evaluations, and teaching strategies for the mentally handicapped/physically handicapped are examined and discussed. Students develop and utilize reading materials in a classroom situation. Offered spring semester. PREREQ: Permission of the instructor.

Secondary Education and Professional Studies

Kegham A. Mississyan,
Chairperson

Richard C. Gleockler,
Assistant Chairperson

PROFESSORS: Buechele, Cleary, Deischer, Good (Charles), Means, Mississyan, Thomas, Walters, Williams
ASSOCIATE PROFESSORS: Gleockler, Holingjak, Leeds, Paganelli, Silverman, Treadwell
ASSISTANT PROFESSORS: Edwards, Hsu, Kumar

The degree of Bachelor of Science in Education, preparing the student for teaching in the secondary schools, may be earned with academic specialization in biology, chemistry, communications, earth and space science, English, French, general science, German, Latin, mathematics, physics, Russian, Spanish, or social studies (which includes concentrations in geography, government and politics, and history). Satisfactory completion of a secondary curriculum will also qualify the student for a Pennsylvania Instructional I Certificate, which is valid for teaching the specified subject in approved secondary schools in Pennsylvania for three years. The student must choose one academic field of specialization.

BACHELOR OF SCIENCE IN EDUCATION

1.	General Requirements—Secondary Education Programs, see page 70	44 s.h.
2.	Professional Education Requirements—Secondary Education	30 s.h.
	Professional Education Courses	
	EDF 100* School and Society	3 s.h.
	EDP 250* Psychology of Learning and Development	3
	EDM 300* Introduction to Instructional Communications	3
	EDS 306* Principles of Teaching and Field Experience in Secondary Education	3
	EDP 351* Evaluation and Measurement	3
	EDS 412 Student Teaching for Secondary Education, Including Practicum	12
	Methods of Teaching Academic Subject	3
		30 s.h.

3. Specialization For Secondary Teaching—See appropriate page for each field of specialization.

Specialization in one of the teaching fields listed below is required for graduation in secondary education. The minimum semester hours which West Chester requires for each field will satisfy the teacher certification requirements in Pennsylvania. The minimum for each field of specialization may be noted in the particular B.S. in Education program given under the heading of the department. (See School of Arts and Letters, School of Sciences and Mathematics, or School of Social and Behavioral Sciences.)

Secondary Teaching Fields

Biology	French	Physics
Chemistry	General Science	Russian
Communications	German	Social Studies
Earth and Space Science	Latin	Spanish
English	Mathematics	

The student following the secondary education program must confer regularly with his professional studies advisor in the Department of Secondary Education and Professional Studies, as well as with the academic advisor assigned by his respective academic department. The final certification of all students whose goal is the Bachelor of Science in Education is the responsibility of the dean of the School of Education

*The student must have at least a grade of "C" in the asterisked courses in order to be admitted to EDS 412: Student teaching.

COURSE DESCRIPTIONS

FOUNDATIONS

Symbol: EDF

100 School and Society (3) An introduction to the nature, function, scope, organization, administration, and support of the public school in American society. Offered every semester.

350 The Professional and Student Personnel Services (3) An introduction to non-adjunctive services in education PREREQ: EDP 250. Offered in spring.

EDUCATIONAL PSYCHOLOGY

Symbol: EDP

249 Adolescent Development (3) Course focuses on the emotional, social, intellectual, moral, physical, and self-concept factors shaping human behavior with emphasis on adolescent behavior. PREREQ: PSY 100, and EDE 251 or EDE 254. Offered in spring

250 Psychology of Learning and Development (3) A study of learning in relation to the physical, social, emotional, and intellectual aspects of personality. PREREQ: PSY 100. Offered every semester

351 Evaluation and Measurement (3) A survey of testing materials and procedures with emphasis upon interpretation and application of results for pupil guidance purposes Class meets three times weekly PREREQ: PSY 100, EDP 250. Offered every semester

SECONDARY EDUCATION

Symbol: EDS

306 Principles of Teaching and Field Experience in Secondary Education (3) Methods and strategies of teaching in secondary schools will be the core of the course. Implications of classroom management and learning and other related problems will be discussed. PREREQ: EDF 100, and junior standing Offered every semester.

410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of secondary education which will sharply increase her/his knowledge of secondary education PREREQ: permission of department chairperson

412 Student Teaching and Direction of Activities (Secondary Education) Including Practicum (12) Observation and participation in teaching and all other activities related to the teacher's work in the area of the student's specialization. PREREQ: 96 semester hours including all professional-education courses. Students must have at least a 2.0 cumulative average and a 2.0 average in the major field Offered every semester

Social Work—See Anthropology, Sociology and Social Welfare

Sociology—See Anthropology, Sociology and Social Welfare

Special Education

Deborah A. Nickles
Chairperson

PROFESSOR: Freeman
ASSOCIATE PROFESSOR: Zlotowski
ASSISTANT PROFESSORS: Finkel, Nickles

Degree Program to teach the Mentally and/or Physically Handicapped

The object of the program in special education is to provide relevant and comprehensive training for those seeking certification in the teaching of the mentally and physically handicapped.

The special education curriculum is designed to produce a teacher who is clinically oriented with a foundation in normal growth and development and educational practices. The person will have been exposed to children between the ages of 3 to 21 with mental and physical handicapping conditions ranging from mild to severe but is not necessarily equally proficient in all areas. Personal characteristics essential for adequate preparation and performance will include a minimal level of flexibility, receptivity, intellectual ability, physical stamina, and a focus on professional and realistic expectations.

BACHELOR OF SCIENCE IN SPECIAL EDUCATION

1. General Requirements, see page 70 — 44 s.h.
   Introduction to Psychology is required.
2. Professional Education — 27 s.h.
   Required: EDF 100, EDP 250, EDM 300, EDP 351, EDE 200 or EDS 306, EDA 415.
3. Special Education — 24 s.h.
   Required: EDA 101, EDA 102, EDA 220, EDA 301, EDA 302, EDA 350, EDA 360, EDA 403.

4. Required Electives 9 s.h.
   Three courses are to be selected from the following four areas:
   - A course in music education methods
   - A course in teaching art
   - A course in children's literature
   - A course in teaching hygiene

5. Required Supporting Courses 24 s.h.
   PED 252, EDE 251, EDS 249, EDE 315, EDR 323, EDE 330, SPP 340, MAT 357.

COURSE DESCRIPTIONS

Symbol: EDA

100 Mainstreaming for Exceptional Students (3) This course is designed to acquaint the classroom teacher with the prospective exceptional students who may be spending some portion of the day in the regular setting. Current regulations covering those placements will be reviewed. Emphasis will be placed on adequately meeting special educational needs.

101 Psychology of the Mentally Handicapped (3) An introduction to the range of exceptional children from an historical perspective with an indepth study of mental retardation and emotional disturbance. PREREQ: PSY 100.

102 Psychology of the Physically Handicapped (3) An indepth study of the physically handicapped and the learning disabled/brain damaged with an overview of psychological and societal implications and multi-handicapping conditions. PREREQ: PSY 100.

220 Behavior Management (3) An exploration of current practices in management of behavior with emphasis on teacher delivered systems. PREREQ: 101, 102.

241 Psychology of Exceptional Children (3) Psychology of children who are mentally gifted or retarded or who have vision, hearing, speech, or orthopedic handicaps or emotional or social problems. PREREQ: PSY 100.

243 Psychology of the Mentally Retarded (3) Etiology, diagnosis, and various treatment approaches to the mentally retarded. PREREQ: EDA 241.

245 Introduction to Learning Disabilities (3) Identification, education, and treatment of the child labeled as learning disabled. Emphasis given to the specific learning and emotional needs which such a child presents. An overview of the historical development and current status of this field is included.

301 Field Experience and Seminar: Mentally Handicapped (3) A weekly 3 hour practicum and 1 1/2 hour seminar devoted to field experience with mentally handicapped students and class analysis of observed needs and methods of teacher responses. PREREQ: EDE 101.

302 Field Experience and Seminar: Physically Handicapped (3) A weekly 3 hour practicum and 1 1/2 hour seminar devoted to field experience with physically handicapped students and class analysis of observed needs and adjustment factors. PREREQ: EDE 102.

330 The Academically Superior Child (3) The gifted child and means of providing an effective educational program for him.

344 Problems in Special Education (3) Analysis of problems involving school personnel, parents, community agencies, and the cultural background of students in special education. PREREQ: EDA 350.

350 Life Curriculum and Methods: Handicapped Learners (3) Preparation to assist handicapped students to achieve adaptive levels of behavior through the view of total life preparation. PREREQ: 101, 102.

360 Diagnostic and Prescriptive Teaching (3) An introduction to diagnostic procedures and the conversion of these findings into relevant educational plans and instructional strategies. PREREQ: 350

403 Senior Seminar: Current Trends (3) Exploration of emerging concepts, problems, trends in a seminar format with emphasis on individual preparations. PREREQ: 360.

410 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of special education which will sharply increase her/his knowledge of special education. PREREQ: permission of chairperson.

415 Student Teaching and Direction of Activities (Special Education) Including Practicum (12) Participation in teaching and all other activities within the student teaching role related to the teacher's work. Students meet once a week in a practicum session. PREREQ: 96 semester hours including all professional education courses and all specialized preparation courses.

450 Mental Health/Mental Retardation Practicum (3) Provides opportunity to engage in field work in the mental health/mental retardation field. Field and class work adapted to individual interests.

Speech Communication and Theatre

William M. Morehouse,
Chairperson

PROFESSORS: Martel, Morehouse
ASSOCIATE PROFESSORS: Berkowitz, Casagrande, Hashimoto, Keefe, Meiswinkel
ASSISTANT PROFESSORS: Del Polito, Hall, Klinzing
INSTRUCTORS: Bytnar, Saddoris

The aims of the Department of Speech Communication and Theatre are to develop the student into an independent, responsible, and effective citizen by enabling him to grasp the nature and scope of communication and performing arts. The department's degree programs are designed to train teachers of communications, theatre craftsmen, and communications professionals.

DEPARTMENT RELATED STUDENT ACTIVITIES

Little Theatre, The Forensic Society, and the West Chester College Musical Theatre Company are student organizations which involve department faculty and resources. These activities are open to all students. For more information see: STUDENT AFFAIRS.

BACHELOR OF ARTS PROGRAMS

The department offers two bachelor of arts degree programs. Beyond the 44 hours in general requirements, 15 hours of arts and letters core, and a demonstrated proficiency in a foreign language through the Intermediate II level, the

degree in speech communication and the degree in theatre arts require areas of concentrated study.

Department Internships

Intern experiences are provided for students by the department in work related to vocational and academic interests. Students have been placed in offices of congressmen, radio and television stations, and local industries. Students and their intern placements are screened to assure mutual satisfaction for all parties involved. For details, students should check with the department's internship coordinator.

1. **Bachelor of Arts in Speech Communication**
   - A. Requirements:
     44 hours general education requirements
     15 hours School of Arts & Letters Core
     33 hours Speech Communication Concentration
     30 hours cognate area
     0-12 hours foreign language through 202
   - B. Electives 42 hours
   - C. For specific course requirements, request a Majors Student Handbook from the department.

2. **Bachelor of Arts in Theatre Arts**
   - A. Requirements:
     44 hours general education requirements
     15 hours School of Arts & Letters Core
     51 hours Theatre Concentration
     0-12 hours foreign language through 202
   - B. Electives 36 hours
   - C. For specific course requirements, request a Majors Student Handbook from the department.

BACHELOR OF SCIENCE IN EDUCATION—COMMUNICATIONS

This program is designed to meet Pennsylvania standards for certification of teachers of communication. Recipients of this certificate are qualified to teach English, speech, and theatre.

- A. Requirements:
  44 hours general education requirements
  30 hours professional education requirements
  30 hours communication core
  30-33 hours in area of concentration
- B. Areas of concentration include Speech, Theatre, Writing, Language and Linguistics, Literature, Non-print Media.
- C. For specific course requirements, request a Majors Student Handbook from the department.

Note: The **Communications Core** is common to all of the areas of concentration and is the basis for triple teacher certification in English, speech and drama.

COURSE DESCRIPTIONS

Symbol: SPC

101 Speech Fundamentals: Interpersonal Communication (3) Development of competencies for purposeful speech communication. Awareness of the effects of language on communications. Recognition of the types and purposes of a selected number of communications. Grasp of the role of evidence and organization in spoken messages.

102 (also THA 102) Oral Interpretation (3) See THA 102 for description.

103 Communication Heritage (3) The development of critical communication variables evolved from early Sophistic Greece through modern Empiricism.

105 Voice Dynamics (3) Training in the creative-esthetic production of speech, including respiration, phonation, articulation, and resonation.

106 (also SPP 106) Introduction to Phonetics (3) See SPP 106 for description.

107 Competency Base Effective Speech for the Teacher (3) Course designed to help education majors improve their own speech habits and to provide oral experiences directly related to classroom teaching, administrative duties, and professional service

109 Public Communication (3) Devlopment of skills necessary to understand the theory of and proficiency in communication as a problem-solving tool in the community. Special emphasis is on the student's performance as a sender and receiver of messages directed at social action.

117 Introduction to Radio-TV Film (3) A survey course designed to identify, analyze, and evaluate the pragmatic, persuasive, creative, and technical dimensions of mass media.

203 Argumentation and Debate (3) Functions and principles of argumentation and debate, including analysis, evidence, reasoning, and refutation. Class debating on vital issues.

209 Communication Theory (3) Examines the theoretical and practical implications of basic interpersonal and mass communication theories.

216 Small Group Communication (3) Introduction to and practice in the structured small group. Emphasis on preparation for, analysis of, and participation in problem-solution oriented groups.

217 Directing and Producing the Documentary Television Programs (3) Planning and producing the non-dramatic television production.

230 Business and Professional Speech Communication (3) Practice in effective speaking and listening; reports and sales presentations; policy speeches, conference leadership techniques, group dynamics, speaking; interpersonal communication in the business and professional setting.

250 Listening: Verbal and Nonverbal Perceptions (3) A study of the verbal and sensory messages we are constantly receiving. Listening as a theory and behavior; body language and the uses of space, time, touch, objects and color inherent in the sensory messages we receive.

301 Psychology of Speech Communication (3) Communication as a psychological phenomenon. Emotional and mental process in human communication. Function of the senses, motivation, and personality.

303 Modern Trends in Argument (3) Study of the new thinking in argumentation theory. Deemphasizes classic validity and centers on the building of arguments which are acceptable to the hearers. Work on Stephen Toulmin and Chaim Perelman is focus.

316 Discussion: Non-Structured Group (3) A modified training group in which the group members are the focus of all interaction.

317 Directing and Producing the Dramatic Television Program (3) Planning the program. Preparing the shooting script. Practice in rehearsing with actors and cameras.

318 Forensics (3) Study in the philosophy and practice of forensics. Initiating, developing, and administrating a forensic program. Coaching and judging debate and individual events.

350 Communicators in Perspective (3) Study of speakers and speeches focusing on controversial public issues.

399 Directed Studies in Speech Communication (1-3) Research, creative projects, reports, reading in speech communication. Application must be made to advisors by students one semester in advance of registration. PREREQ: approval of department chairperson. Open to juniors and seniors only.

400 Internship in Speech Communication (3-6-12-15) This course provides a structured and supervised work experience in communication. Credits earned are based on amount of time spent on the job. Students must apply to the department intern coordinator and receive approval of department internship faculty committee to be admitted.

402 Teaching Communications (3) Theory and practice in teaching junior and senior high school communication and drama courses and in directing co-curricular programs in junior and senior high school.

403 Persuasion (3) Current theories of attitude and attitude change. Practice in speaking to modify behavior through appeals to the drives and motives on the listener. PREREQ: SPC 101 or consent of instructor

409 Intercultural Communication (3) A study into factors which contribute to communication breakdowns between diverse cultures and between fragmented segments within the same society.

415 (also LIN 415) General Semantics (3) Study of the relativistic view of language developed by Alfred Korzybski. Emphasis on language manipulation, its effect on individual behavior, and its place in interpersonal communication

416 Group Communication Processes (3) Current research in small-group communication. Emphasis is on major small-group theorists and their interrelationships.

COURSE DESCRIPTIONS

Symbol: THA

100 Theatre Practice (1-3) Laboratory experience in technical aspects of play production. Open to all students

101 Introduction to the Theatre (3) Survey of theatre as a humanity by exploring development and use of forms, styles, and elements of drama. The study includes historical periods, musicals, and Black Theatre.

102 (also SPC 102) Oral Interpretation I (3) Theory and practice of oral presentation of various types of literature to an audience.

103 Beginning Acting (3) Theory and practice in creating the character through development of the actor's physical and emotional responses. No previous experience is necessary and the course is open to non-majors.

104 Stagecraft (3) Planning, construction, painting, rigging, and shifting of scenery. Management of all operations backstage. Laboratory required.

113 Stage Movement (3) An introduction to movement for the undergraduate actor to include actor-body emphasis concentration exercises, character development, nonverbal communication, and the integration of voice and body.

202 Oral Interpretation II (3) Advanced work in oral presentation of literature with emphasis on the theory and technique of readers theatre. PREREQ: THA 102.

203 Intermediate Acting (3) Theory and practice in developing actor's skills: bodily movement, character interpretation, concentration, etc. This is a beginning course for students with previous experience

206 Theatre Production (3) Selection of plays suitable for elementary schools and junior and senior high schools. Techniques for effective minimal staging.

207 Children's Theatre (3) Production of children's theatre for stage and television. Course elements will include: script analysis and production values, publicity and tour preparation. Students enrolled in the course will create a complete production.

209 Stage Makeup (3) Theory and practice in design and application of makeup for the stage.

210 Creative Dramatics (3) Theory and practice in creative techniques of expression and dramatic forms to be used as a teaching and recreational device for children and adults.

215 History of Custome and Design I (3) The history of European costume from Greek to Elizabethan. Students are required to design costumes for periods studied

216 History of Costume and Design II (3) The history of European and American costume from the 17th century to the present day. Students are required to design costumes for each of the periods studied. THA 215 is not a prerequisite.

218 History of the Theatre to 16th Century (3) Development of the theatre from primitive times through the Shakespearean period Analysis of theatrical productions as indications of the life style of each historical period.

219 History of the Theatre, 16th Century to Present (3) Development of theatre from Shakespeare to present. Analysis of theatrical productions as indications of the life style of each historical period.

220 History and Aesthetics of the Oriental Theatre (3) Impact of oriental theatrical traditions on Western thought and art. Oriental integration of form and content, especially in the theatres of India, China, and Japan.

301 Directing (3) Theory and practice in play direction with emphasis on play seelection, script preparation, casting, blocking, and rehearsing. PREREQ: THA 103 or 203 and THA 104 or 206.

303 Advanced Acting (3) Improvision, modern and period acting styles. Acting projects presented and defended before an invited audience. One hour of lab. PREREQ; THA 203.

304 Scenic and Lighting Design (3) Principles and practice in designing an appropriate and expressive milieu for the play, Perspective sketches, working drawings, lighting plots, and models. Historical development of stage scenery and lighting

309 Advanced Makeup (3) Theory, development, and application of theatrical makeup according to: the play, its period, the style of production, the actor, and the character. Students must have previous knowledge of the basic two and three dimensional makeup devices. PREREQ: THA 209.

311 The Psyche of Woman in Modern Drama (3) If theatre mirrors the times, there must be some reason for the preponderance of neurotic and domineering women found in dramatic literature. This course will explore the psychological and sociological reasons for this character in modern drama.

399 Directed Studies in Theatre (1-3) Research, creative projects, reports, readings in theatre. Application must be made to advisors by students one semester in advance or registration. PREREQ: approval of department chairperson. Open to juniors and seniors only.

400 Internship in Theatre (3-6-12-15) This course provides a structured and supervised work experience in theatre. Credits earned are based on amount of time spent on the job. Students must apply to department intern coordinator and receive approval of department internship faculty committee to be admitted.

401 Advanced Directing (3) Directing as a creative aspect of play production. Problems in directing actors in varied styles and forms of plays. PREREQ: THA 301.

404 Advanced Scenic and Lighting Design (3) Analysis of excellent scene designs of the past. Practice in maximizing the visual impact of stage scenery and lighting. Design projects for selected visually challenging plays Students design for both student-directed and major productions on campus. One hour of lab. PREREQ: THA 304

405 Advanced Costume Design and Construction (3) This course emphasizes the unrealistic and stylized approaches for costume design and construction. PREREQ: THA 215 or 216 and/or permission of instructor.

Speech Pathology and Audiology

Michael S. Weiss,
Chairperson

ASSOCIATE PROFESSORS: Aungst, Maxwell, Peterson, Suppan, Weiss
ASSISTANT PROFESSORS: Alson, Dempsey, Eberhart, Stigora
INSTRUCTOR: Stuart

The major in speech pathology and audiology is designed to prepare students to provide therapy in the elementary and secondary schools of the Commonwealth and to provide students with basic knowledge of communication and communication disorders necessary for graduate work.

Upon successful completion of the program, a student may qualify for the Pennsylvania Instructional I Certificate in Speech Correction (K-12). To serve as a speech pathologist or an audiologist in a rehabilitation center, hospital, or in private practice, the student should have both a master's degree and the appropriate Certificate of Clinical Competence from the American Speech and Hearing Association.

The department operates a Speech and Hearing Clinic which serves as a teaching-training facility for the academic program. The clinic provides diagnostic and therapeutic services for children and adults with speech and hearing problems. These services are available to individuals from the college as well as the surrounding communities.

BACHELOR OF SCIENCE IN EDUCATION — SPEECH PATHOLOGY AND AUDIOLOGY

Each student must complete the following requirements:

1 General Education, see page 70 44 s.h.

2. Arts and Letters Core 9 s.h.
In addition to the general education requirements for humanities, the student will select nine semester hours in humanities under advisement

3. Professional Education 30 s.h.
EDA 241, EDF 100, EDP 250, PSY 375, PSY 425, SPP 412, SPP 470

4 Specialized Preparation 42 s.h.
PHY 110, SPP 101, SPP 106, SPP 107, SPP 203, SPP 223, SPP 236, SPP 323, SPP 343, SPP 346, SPP 350, SPP 351, SPP 352, SPP 471

COURSE DESCRIPTIONS

Symbol: SPP

101 Introduction to Communication Disorders (3) An introductory survey of normal processes and disorders of speech, language and hearing. Suitable for non-majors. Replaces SPP 100 and SPP 201

106 (also SPC 106) Introduction to Phonetics (3) Study of the sounds of the English language. Development of skill in their recognition, production, and transcription.

107 Speech and Language Development (3) Theoretical origin of speech in mankind and the development of speech in the individual. Normal development of speech is stressed.

203 Anatomy of Speech and Hearing Mechanisms (3) A study of embryology, normal development, neurology and physiology of anatomical structures of the speech and hearing mechanisms.

223 Voice and Articulation Disorders (3) The symptomatology, etiology, diagnosis and treatment of communication disorders associated with articulation and voice. PREREQ: SPP 101 and 106.

236 Language Disorders (3) The symptomatology, etiology, diagnosis and treatment of language disorders in children and adults including the mentally retarded, emotionally disturbed, neurologically impaired, and hearing impaired. PREREQ: SPP 107, 223.

323 Neuromuscular Disorders and Stuttering (3) The symptomatology, etiology, diagnosis and treatment of communication disorders associated with stuttering and neuromuscular disorders. PREREQ: SPP 223 or consent of instructor.

343 Introduction to Audiology (3) An introduction to audiology and its relationship to other medical and educational fields concerned with hearing impairments. Developmental, medical, social, physical, and psychological properties of hearing and sound are explored. Evaluative techniques are introduced with opportunity for limited practical experience.

346 Aural Rehabilitation (3) Medical, prosthetic, and educational approaches to aural rehabilitation for children and adults are considered. A comparative analysis of prevailing theories and techniques is made. A combined approach is stressed. PREREQ: SPP 343.

347 Audiometry (3) A lecture-laboratory course which explores the measurement of hearing. Opportunities to develop competencies in administering basic measures are provided during lab periods. PREREQ: SPP 343.

350 Clinical Principles in Speech and Hearing (3) A study of evaluative and therapeutic materials and methods applicable to the professional setting. PREREQ: SPP 106, 223 and 2.50 average in major (SPP) courses. Must be taken concurrently with SPP 351.

351 Clinical Practicum (3) Supervised practice in the Speech and Hearing Clinic. Designed to prepare the student to evaluate and provide therapy for children and adults who have communication problems. Must be repeated if performance is not satisfactory. PREREQ: permission of instructor. Must be taken concurrently with SPP 350.

352 Advanced Clinical Practicum (3) PREREQ: SPP 351 and permission of instructor.

410 Independent Study (1-3) Research, creative projects, reports, reading in speech pathology and audiology. Application must be made to advisers by students one semester in advance of registration. Open to juniors and seniors only. PREREQ: approval of department chairperson. Offered upon demand.

412 Therapy in the Public Schools (Student Teaching) (12) Observation and participation in teaching and activities related to the performance of a therapist's work in the area of speech pathology and audiology. PREREQ: satisfactory completion of all required speech, hearing, and psychology courses through the sixth semester and senior standing. Students must have at least a 2.0 cumulative average and 2.5 average in the major field.

469 Equipment Workshop (3) Evaluation, selection, use and maintenance of electronic aids for the speech and hearing clinician. Emphasis upon demonstrations and practical experience. Open to speech pathology and audiology students with senior standing. Also offered as SPP 509 for graduate credit.

470 School Language, Speech, and Hearing Programs (3) Orientation to and observation of the organization, administration, and operation of school speech and/ or hearing programs (K-12). For speech pathology majors with consent of instructor.

471 **Inter-Professional Seminar in Speech and Hearing** (3) Explores the interrelationship between the speech or hearing therapist and members of allied professions. The course format will include having guest speakers as well as observing specialists in their employment setting. PREREQ: permission of instructor.

Theatre—

See Speech Communication and Theatre

The Undeclared Major Program

The Undeclared Major Program is offered to West Chester students as a way to explore fields of interest before entering a degree program. During this period of no more than four semesters, the student schedules courses which fulfill the general education requirements. Additional courses may be selected in a wide range of disciplines.

Students should understand that certain programs may require prerequisites to further study. Completion of such prerequisites, if not undertaken during the period of study as an undeclared major, may prolong college attendance accordingly.

Certain programs have limited resources which may limit the number of students in the program at any one time. A student may transfer into a program from undeclared status only if 1. there is a vacancy in the desired program 2. the head of that program approves and 3. a formal approved change of major form has been filed in the Office of the Registrar. Students should make inquiry about such vacancies well in advance.

Urban Education

F. William Leeds, Associate Professor,
Coordinator

West Chester offers a special focus which strengthens the preparation of teachers who wish to work in the schools of the inner cities, where the need for skilled teachers is great.

The prospective urban teacher needs both carefully planned college courses and equally well planned experience in the schools. Because of the complexity of urban civilization and the diversity of the persons and situations he deals with, the urban teacher should have a particularly rich background in both the liberal arts and professional studies.

The focus upon urban education does not provide additional certification and does not vary essentially from the normal requirements for either the elementary or the secondary major.

Elementary education majors incorporate the urban education into their curriculum by selecting it as their area of interest.

Secondary education majors who wish to consider this special preparation must first consult with the coordinator of urban education. Unless the requirements for their field are very heavy, students are usually able to fit the urban education core into their curriculum without going beyond the 128 hours required for graduation.

COURSE DESCRIPTIONS

Symbol: EDU

360 The Disadvantaged Child (3) Backgrounds, problems, and potentialities of the disadvantaged student. Offered in fall.

361 Teaching in Urban Schools (3) An introduction to urban education by means of observation, lectures, discussions, and related activities PREREQ: EDU 360 or permission of instructor. Offered in spring.

Women's Studies

Madelyn Gutwirth, Pamela Hemphill, Anne Sessa
Coordinators

The Women's Studies Program consists of an interrelated group of courses offered across a wide spectrum of disciplines by individual departments. The program is under the supervision of the Steering Committee of Women's Studies which decides what courses are acceptable to the program. This program is envisaged primarily as an enrichment to liberal education rather than a pre-professional study, although the social transformation that is taking place both in society and in intellectual life may ultimately make study in this area a professional asset.

The aim of the program is to integrate the distaff experience into the curriculum and to encourage inquiry into previously neglected areas such as women's history and prehistory, women writers, artists and historical figures, female psychology, and woman's place in society.

Women's Studies Courses

The Status of Women in Two Worlds (HIS 345)
Women in Modern Europe (HIS 320)
Women in America (HIS 351)
Psychology of Women (PSY 490)
Women in Contemporary Society (HIS 360)
Woman in Western Literature (HUM 361)
Women in Modern Fiction (HUM 362)
American Women Writers (LIT 308)

Bio-Medical Issues of Women and Society (NSG 414)
Women in Art (ART 419)
Women and Politics (PSC 301)
The Psyche of Woman in Modern Drama (THA 311)
Feminist Poetry (LIT 274)

These courses are open to all students as free electives under general requirements. With permission of their departments, they may also be taken as electives within the student's program. A woman's studies concentration consists of 18 credit hours, no more than 9 of which may be taken in a single department, plus a final 2 credit individualized project. Transcript recognition will be awarded upon its completion.

Descriptions of humanities courses in women's studies appear below. See departmental listings for all other courses.

COURSE DESCRIPTIONS

Symbol: HUM

360 Women in Contemporary Society (3) An interdisciplinary course designed to enable students to analyze various kinds of statements on woman, to question the implications of changing cultural patterns, and to sample, firsthand, efforts for change. P/F option.

361 Woman in Western Literature (3) An inquiry reaching back into classical antiquity for some prototypes of woman in the literature of the West. Readings from Aeschylus, Sophocles, Aristophanes, Euripides, Ovid, Dante, Petrarch, Shakespeare, Moliere, Austen, Flaubert, James, Tolstoy, Shaw, Cather, Giraudoux, others.

362 Women in Modern Fiction (3) Short fiction selected from the works of such modern women writers as Lessing, Drabble, Nin, and Morrison.

COMMONWEALTH OF PENNSYLVANIA

RICHARD L. THORNBURGH, Governor

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Faculty
January, 1979

CHARLES G. MAYO (1974) *President, Professor of Political Science*
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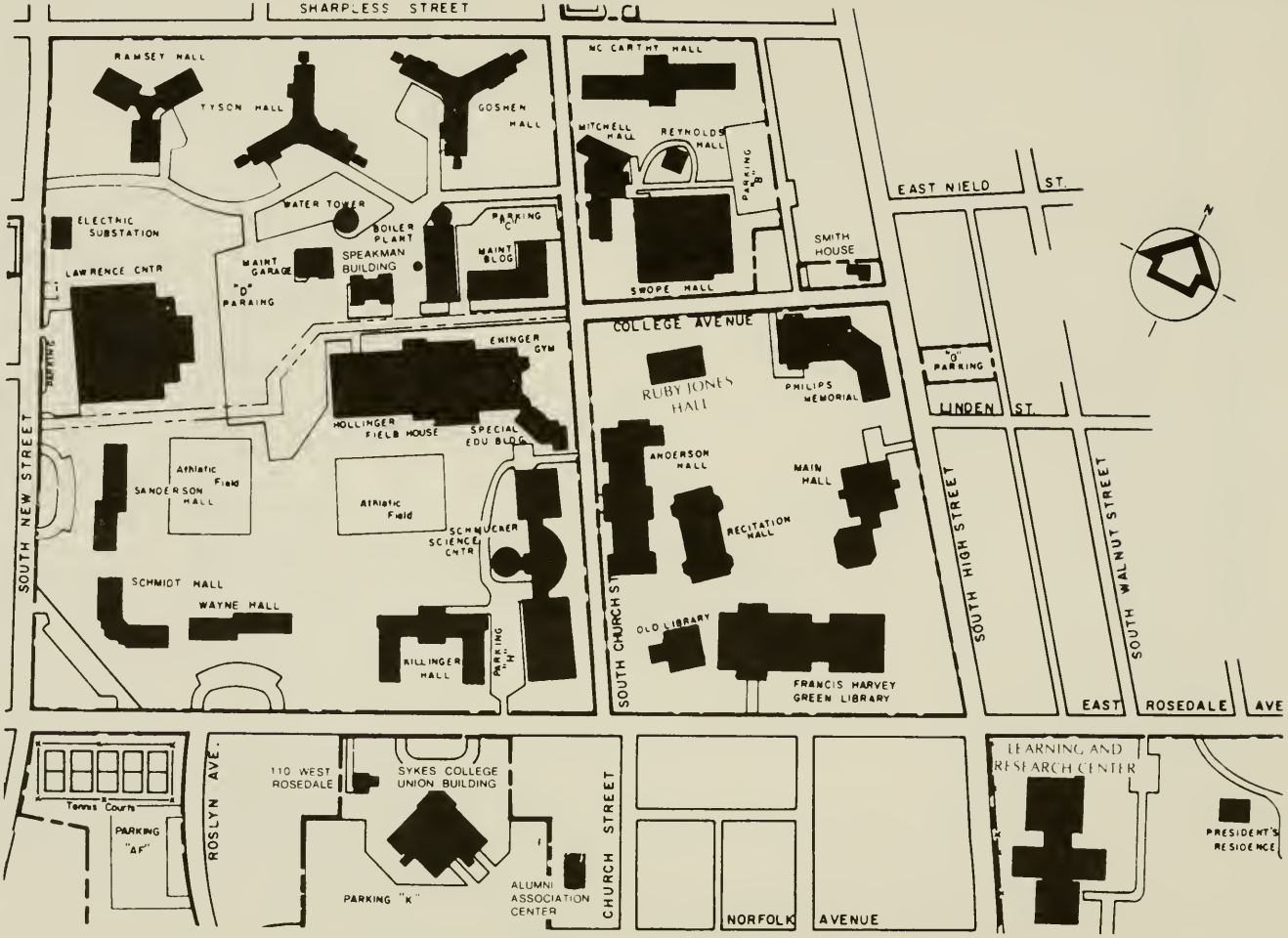
NORTH CAMPUS



REQUEST FOR APPLICATION FORMS

(Secondary school students are asked to send this request as soon as possible following completion of their junior year.)

1 Name _____
(Last) (First) (Middle)

2. Number and Street _____

3. City _____ State _____ Zip Code_____

4. When do you wish to enter West Chester? _____ 19_____
(State the month, September, January or June)

5. In what curriculum do you wish to enroll? (Please check one only)

Arts and Sciences ☐
List Major . . . . . .

Business Administration ☐

Computer and Information Sciences ☐

Criminal Justice ☐

Elementary Education ☐

Health and Physical Education ☐

Health Education ☐

Music ☐
Check the Music degree you wish to pursue:
B.S. in Music Education
Bachelor of Arts
Bachelor of Music

Nursing ☐

Public Health ☐

Secondary Education ☐
List Major . . . . . .

Speech Correction ☐

Undeclared Major ☐

6. Have you attended any other college? yes ☐ No☐

If so, give name of the college _____

How many semesters did you spend there? _____

7. Do you intend to apply as a Resident Student? ☐ Commuter Student? ☐

8. When will you (or when did you) graduate from secondary school?

Month_____ Year_____

Send to:

Director of Admissions
West Chester State College
West Chester, Pennsylvania 19380
215-436-3411

Note: When this information is received, instructions for completing your application will be sent to you. Do not send application fee with this form.

West Chester State College

West Chester, Pa. 19380

Summer Sessions 1980

Undergraduate Offerings

CALENDAR

Undergraduate Summer Sessions—1980

Scheduling begins in March and continues until the termination date given below for each session.

Students register according to the first letter of their last names. No student may register at other than the scheduled hour and date. Employed students should arrange for time off in order to register at their designated hours.

PRE SESSION

Scheduling ends 4:00 p.m.		Friday, May 23
Registration		Monday, June 2
	A through F	8:30-9:45 a.m.
	G through L	9:45-11:00 a.m.
	M through R	12:30-1:45 p.m.
	S through Z	1:45-3:00 p.m.
Classes begin 8:00 a.m.		Tuesday, June 3
Classes end		Friday, June 20

REGULAR SESSION

Scheduling ends 4:00 p.m.		Friday, June 13
Registration		Monday, June 23
	A through F	8:30-9:45 a.m.
	G through L	9:45-11:00 a.m.
	M through R	12:30-1:45 p.m.
	S through Z	1:45-3:00 p.m.
Classes begin 8:00 a.m.		Tuesday, June 24
Holiday		Friday, July 4
Classes end		Friday, August 1

POST SESSION

Scheduling ends 4:00 p.m.		Friday July 25
Registration		Monday, August 4
	A through F	8:00-9:00 a.m.
	G through L	9:00-10:00 a.m.
	M through R	10:00-11:00 a.m.
	S through Z	11:00-12:00 noon
Classes begin 8:00 a.m.		Tuesday, August 5
Classes end		Friday, August 22

REGISTRATION LOCATION

Lawrence Center—at western end of campus, see map on back cover

TELEPHONES (AREA CODE 215)

Summer Sessions	436-2230
Registrar	436-2420
Admissions	436-3411
Graduate & Continuing Study	436-2243

Summer at West Chester..

At West Chester State College the 12-week summer program is divided into three sessions of three, six and three weeks, designated as the Pre, Regular and Post Sessions, respectively. The calendar for 1980 appears at left. Most of the courses offered follow this schedule. Exceptions, mostly in the workshops and other special offerings, are noted in the course listings and in the special workshop session of this catalog.

Additional information on a particular course or program may be obtained from the department offering it. General information is available at the Office of Admissions, 110 Rosedale Avenue, and the Office of Summer Sessions, Learning and Research Center, High and Rosedale.

Why West Chester?

Students choose West Chester State College for summer study for a variety of reasons. Our convenient scheduling allows time for a summer job or vacation as well as study. Our extensive course offerings provide a great deal of flexibility in planning a program. And our location is especially attractive both to those students in the Delaware Valley who want to be close to home and job and those from farther away who see the area as an exciting place to spend the summer.

What an exciting place West Chester can be! Close enough to Philadelphia to be considered a suburb with access to the city's theatres, concerts, shopping and international cuisine, the town is far enough into the country to be near the fields and mountains for such outdoor pursuits as horseback riding, backpacking, canoeing and picnicking. Culture and history are there for the absorbing, and nightlife is as close as a walk uptown.

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NON-DISCRIMINATION POLICY

West Chester State College is committed to a policy of non-discrimination in compliance with all applicable federal and state statutes. Educational programs, activities and employment at the college are provided to individuals without regard to their marital status, race, color, national origin, sex, sexual orientation, age or religious creed. In addition, the college endeavors to remove any barriers and to provide opportunity for education and employment of handicapped persons. This policy of non-discrimination applies to all students, employes, applicants for admission and employment and all participants in college-sponsored activities. Inquiries regarding compliance with this policy may be directed to Mr. Ronn Jenkins, Director of Affirmative Action, Philips Memorial Hall, West Chester State College, telephone (215) 436-2838.

General Information

About the college...

West Chester State College is the second-largest of the fourteen institutions of higher learning operated by the Commonwealth of Pennsylvania. Now in its second century, the college is a multi-purpose, comprehensive institution offering a wide range of both undergraduate and graduate programs. New courses and areas of study are constantly being developed to meet changing needs.

A look at the area...

The Borough of West Chester is located in a rapidly developing but still agricultural area near several major metropolitan centers. A community of about 20,000, the town is about 25 miles west of Philadelphia and 17 miles north of Wilmington, Delaware, Washington, D.C. and New York City are both less than three hours away.

As the county seat of Chester County, West Chester is a thriving community. Despite its recent growth, the town retains its own special flavor and historical dignity. Colonial and victorian houses line its brick-paved sidewalks with occasional signs pointing out such spots of interest as the homes of composer Samuel Barber and artist Horace Pippin.

Other nearby attractions include Valley Forge, Longwood Gardens, the Brandywine Battlefield, Winterthur and the Brandywine River Museum.

Transportation...

West Chester State College is accessible both by car and by public transportation.

Public transportation is available both by bus and train. SEPTA's Red Arrow division operates a bus from downtown West Chester (about six blocks from the college) into the 69th Street Terminal in Philadelphia where connections are possible with many other SEPTA lines. Train service is available into Media, Pa., and from there into Philadelphia's 30th Street and Suburban (Penn Center) Stations. In addition, the Reeder Line provides bus service to Exton, Coatesville and Delaware. All of the above (except Red Arrow Division) operate on fairly limited schedules so it would be wise to get additional information before planning to use them on a regular basis. The West Chester State College Office of Off-Campus Life, located in Sykes College Union Building, acts as a public transportation information center by providing schedules for all public transportation serving West Chester. Or call direct,

(area code 215)

SEPTA	DA9-4800
Red Arrow	471-2800
Reeder	384-0991
Penn Central	972-3000

Car routes into West Chester include 100, 322, 62 and 202. The college is near the Pennsylvania Turnpike, Route 1 and Interstate 95. See the area map on the back cover for details.

Carpooling is the sensible alternative to both single driving and public transportation for many commuters. The Off-Campus Student Association has designed a carpooling system for West Chester State College students and will have a **carpooling table** set up at each summer registration.

Campus facilities...

West Chester State College's 551-acre campus contains a variety of structures both historical and modern including high-rise dorms, classrooms and laboratories (many air-conditioned!), and the Francis Harvey Green Library with its collection of more than 370,000

Pre Session Offerings

Monday, June 2, 1980—Friday, June 20, 1980
Registration—Monday, June 2, 1980
Classes begin—Tuesday, June 3, 1980
Unless specified otherwise, pre-sesson classes meet Monday through Friday from 8:00 a.m. to noon with a break from 9:30 to 10:30 a.m.

— Accounting —

BAC 201-21	Principles of Accounting I (3)
BAC 202-21	Principles of Accounting II (3)
BAC 303-21	Cost Accounting I (3)
BAC 403-21	Federal Taxation (3)

— Anthropology & Sociology —

ANT 102-21	Introduction to Anthropology: Cultural (3)
SOC 200-21	Introduction to Sociology (3)
SOC 200-22	Introduction to Sociology (3) Mon. through Thu. 6:00-9:30 p.m.
SOC 250-21	Contemporary Social Problems (3) Mon. through Thu. 6:30-9:30 p.m.

— Art —

ART 101-21	Fine Arts, Art (3)
ART 105-21	Art Workshop (3) See "Summer Workshops/Other Special Offerings"
ART 251-21	Art in the Elementary School (3) 4:30-8:30 p.m.
ART 321-21, 232-21, 332-21, 332-21	Ceramics Workshop (3) See "Summer Workshops/Other Special Offerings"

— Biology —

BIO 100-21	Basic Biology (3) Including Lab
BIO 203-21	Current Issues in Ecology (3)
BIO 209-21	Human Anatomy (4) Lab Mon. through Thu. 1:00-3:00 p.m.
BIO 271-21	Wildlife Conservation (3)

— Business Administration —

BAD 201-21	Business Organization and Management (3)
BMK 221-21	Principles of Marketing (3)
BAD 408-21	Contemporary Problems in Business (3)
BMK 320-21	Sales Management (3)
BAD 101-21	Introduction to Business (3)
BLA 301-21	Business Law (3)

— Chemistry —

CHE 321-21	Analytical Chemistry I (3) June 2 through July 11, 8:00-9:00 a.m. See CHL 321 for laboratory
CHE 103-21	General Chemistry I (3) June 2 through July 4, 8:00-10:00 a.m. See CRL 103 for laboratory
SCI 370-21	Science and Human Values (3) 8:00-11:00 a.m.
CHE 111-21	Chemistry: What People Eat (3) For non-science majors, includes laboratory.
CHE 231-21	Organic Chemistry I (4) June 2 through July 4, 8:30-11:30 a.m. See CRL 231 for laboratory.
CHL 321-21	Analytical Chemistry I Laboratory (2) 9:00 a.m.-12:30 p.m
CRL 103-21	Experimental General Chemistry I (2) 10:30 a.m.-2:30 p.m.
CRL 231-21	Organic Chemistry I Laboratory (2) Noon-4:00 p.m.

— Criminal Justice —

CRJ 100-21	History and Philosophy of Law and Justice (3)
CRJ 312-21	White Collar Crime (3) Mon. through Thu., 6:00-9:00 p.m.
CRJ 490-21	Practicum (12) TBA

— Early Childhood & Elementary Education —

EDE 200-21	Theory & Field Experience (3)
EDE 310-21	Communication Skills in the Elementary School (3)
EDE 332-21	Teaching Social Studies in the Elementary School (3)
EDE 352-21	Self and Group Processes in the Classroom (3)
EDE 401-21	Creativity in the Classroom (3)
EDE 406-21	Classroom Management (3)
EDE 411-21	Student Teaching and Direction of Student Activities (Elementary Majors) Including Practicum (6) 8:00 a.m.-4:00 p.m., Begins May 19
ECE 205-21	Administration and Supervision of Early Childhood Programs (3), 6:00-9:30 p.m., Mon. through Thu.

— Earth Sciences —

ESS 111-21	General Astronomy (3)
ESS 410-21	Independent Studies (1-3) Must have permission of instructor.
ESS 480-21	Special Problems (1-3) Must have permission of instructor
SCE 300-21	Science for the Primary Grades (3)
ESS 101-21	Earth Science (3) 6:00-9:30 p.m.

volumes and subscriptions to over 2,600 periodicals. There is ample open space on campus as well, some utilized for organized sports and recreation and some maintained in its natural state.

Housing...

Housing on campus is available to summer students. Dormitories are well-appointed with lounge areas, recreation rooms and laundry facilities. They are conveniently located near both Lawrence Center, which houses the dining rooms, post office and snack bar, and Sykes College Union with its many student services.

To apply for summer housing write to

Director of Housing
206 Sykes College Union Building
West Chester State College
West Chester, Pa. 19380

This written application must be received **at least one week** prior to the beginning of the session for which housing is required.

Student Services...

Summer students at West Chester State College have available the same full range of services provided during the academic year.

The Career Development Center, which provides **career planning** and **placement** services, is located on the second floor of Lawrence Center. For more information, call 436-2501.

The Counseling Center, staffed by licensed psychologists, offers **individual counseling for personal problem solving** and other counseling services on a confidential basis. Come to second floor Lawrence Center or call 436-2301.

Financial aid is available to summer students in the form of work-study employment, student loans and student grants. Come to second floor Lawrence Center or call 436-2627.

The **Student Health Service** provides first-aid and routine treatment of minor illnesses. Located in Reynolds Hall, the office is open seven days a week from 8:00 a.m. to midnight. Summer students may take advantage of a group accident and health policy, approved by the college, which covers them for the 12 weeks of summer sessions. See the Health Service.

Recreational Services provides organized recreational activities for summer students as well as offering recreational and loan of equipment for student use. There are trips scheduled to concerts, area points of interest and professional baseball games as well as on-campus activities such as intramural softball and volleyball. Campus facilities including the gymnasiums, pool and tennis courts are open for informal recreational use. For additional information, call 436-2133.

Important Notes

- The times and days of classes are subject to change.
- Each summer session offering is contingent upon adequate enrollment in the judgement of college administration.
- The college reserves the right to change policies, procedures and requirements at any time.
- The catalog is not to be regarded as an irrevocable contract between the student and West Chester State College.
- Admission to a summer session does not imply admission for the academic year.

— Economics —

BFN 325-21	Corporation Finance (3)
ECO 101-21	Principles of Economics-Survey (3)
ECO 131-21	Principles of Economics I (3)
ECO 132-21	Principles of Economics II (3)

— English —

ENG 000-21	Basic Writing (0)
ENG 120-21	Effective Writing I (3)
ENG 121-21	Effective Writing II (3)
ENG 268-21	Business Communication (3)
LIT 101-21	Great American Writers (3)
LIT 365-21	Short Fiction (3)

— Foreign Languages —

FRE 101-21	Elementary French I (3) 8:00-9:30 a.m., June 2-July 3
SPA 101-21	Elementary Spanish I (3) 8.00-9:30 a.m , June 2-July 3
FRE	French Majors Program (3-6) See "Summer Workshops/ Other Special Offerings"
GER	German Majors Program (3-6) See "Summer Workshops/ Other Special Offerings"
LAT	Latin Majors Program (3-6) See "Summer Workshops/ Other Special Offerings"
FRE 201-21	Intermediate French I (3) 11:00 a.m.-12:30 p.m., June 2-July 3
SPA 201-21	Intermediate Spanish I (3) 11:00 a.m.-12:30 p.m., June 2-July 3
SPA	Spanish Majors Program (3-6) See "Summer Workshop/ Other Special Offerings"
	Self Instructional Language Program (3-6) See "Workshops/Other Special Offerings."

— Government and Planning —

GEO 101-21	World Geography (3)
PSC 100-21	American Government and
PSC 338-21	Political Thought (3)
PSC/PAD 412-21	Internship (3)
GEO 214-21	Regional Planning (3), 6:00-

— Health —

HED 102-21	Mental Health (3) 4:30-8:00 p.m.
HED 107-21	Parenthood Education (3)
HED 403-21	Family Life/Sex Education (3)

— History —

HIS 101-21	History of Civilization I (3)
HIS 152-21	History of United States II (3)
HIS 360-21	Technology and American Life (3), 6:00-9:30 p.m., Mon Through Thu

— Instructional Media Education —

EDM 300-21	Introduction to Instructional Communications (3)

— Mathematical Sciences —

MAT 101-21	Mathematics for Elementary Teachers I (3)
MAT 103-21	Introduction to Mathematics (3)
MAT 105-21	College Algebra and Trigonometry (3)
MAT 107-21	Calculus for Business I (3)
MAT 141-21	Calculus I (3)
MAT 161-21	Applied Calculus I (4)
MAT 351-21	Teaching Math in Elementary Schools I
CSC 300-21	Applications Programming, TBA

— Music —

MUS 125-21	Perspectives in Jazz (3)
MUS 221-21	Music in Western Civilization I (3)
MUS 222-21	Music in Western Civilization II (3)

— Philosophy —

PHI 101-21	Introduction to Philosophy (3)
PHI 180-21	Introduction to Ethics (3)

Fees and Expenses

Special Notes:

- **The fees listed below reflect charges as of the Fall Semester, 1979 For up-to-date information, contact the Student Accounts Office, 215-436-2552.**
- **FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE.**
- **All charges for a session must be paid on the day of regiatration.**
- **Unless specified otherwise, fees are paid by check or money order payable to: Commonwealth of Pennaylvania. Your check or money order serves as your receipt.**
- **IN-STATE AND OUT-OF-STATE SUMMER STUDENTS PAY THE SAME BASIC FEE. This common basic fee is applicable to summer sessions only.**

Basic Fee

$39 per semester hour of credit or equivalent charge of 0-credit courses.

Housing Fee

(Room and Meals)
Regular Session- $228
Pre or Post Session- $114
No reduction for absences of a few days.
Private rooms: $4 extra per week.
Charges for individual meals-
Breakfast- $1.00
Lunch- $1.45
Dinner- $1.80

Music Instruction Fee

(Regular Session)
Piano, Organ, Instrument or Voice, two half-hour lessons per week- $45
Instrument Class or Ensemble- $35

Pipe Organ for Practice

Regular Session- $12
Pre or Post Session- $6
No charge for piano for practice

Rental of Band or Orchestral Instruments

Regular Session- $6
Pre or Post Session $3

Community Center Fee

All Students
Regular Session- $2
Pre or Post Session- $1

Late Fee

A $10.00 late fee is charged to all students (1) who fail to **schedule** prior to the scheduling deadline for a

Pre-Session Offerings, Con't.

— Physical Education —

PED 101-21, 102-21	Physical Activities (Canoeing) (1), 12:30-2:00 p.m.
PED 101-21, 102-21	Physical Activities (Tennis) (1), 12:30-2:00 p.m.
PED 101-21, 102-21	Physical Activities (Horsemanship) (1), 6:00-8:00 p.m. Additional Fee
PED 361-21	Kinesiology (2) 6:00-8:30 p.m.
PED 458-21	Physical Disabilities of Childhood (2), 6:00-8:30 p.m.
PED 351-21	Evaluation in Health and Physical Education (3) 6:00-9:30 p.m.
PED 353-21	Organization and Administration of Physical Education and Athletics (3) 6:00-9:30 p.m.
PED 355-21	Education for Safe Living
PED 367-21	Arts and Crafts in Recreation (3) 6:00-9:30 p.m.
PED 449-21	Learning on the Move (3) 6:00-9:30 p.m.
PED 450-21	Methods and Materials of Safety Education (3), 6:00-9:30 p.m.
PED 372-21	Wilderness Adventure (2) TBA Additional Fee Schedule (See Mr. Jones, Physical Education Department)

— Physics —

SCI 100-21	Elements of Physical Science (3)
SCI 151-21	Problems of the Physical Environment (3)

— Psychology —

PSY 100-21	Introduction of Psychology (3)
PSY 345-21	Social Psychology (3)
PSY 357-21	Theories of Personality (3)
PSY 465-21	Psychology of Women (3)

— Secondary Education and Professional Studies —

EDP 250-21	Psychology of Learning and Development (3)
EDP 351-21	Evaluation & Measurement (3)

— Special Education —

EDA 344-21	Problems in Special Education (3) 6:00-9:30 p.m.
EDA 403-21	Senior Seminar: Current Trends (3) 6:00-9:30 p.m.

— Speech Pathology & Audiology —

SPP 101-21	Introduction to Communication Disorders (3)
SPP 406-21	Equipment Workshop (3) 6:00-9:30 p.m.

— Speech Communication & Theatre —

SPC 101-21	Speech Fundamentals (3)
SPC 230-21	Business and Professional Speech Communication (3) 6:30-10:00 p.m., Mon through Thu.

session and fail to pay on the designated day for the session (those who both schedule and pay late), (2) who fail to **schedule** by the deadline date and schedule and pay on registration day (those who schedule late but pay on time) and (3) who schedule properly but fail to pay on the designated registration day for the session (those who schedule on time but pay late.)

See the Summer Sessions Calendar, page 1, for scheduling deadlines and registration days.

Dishonored Check Fee

A fee of $10 is charged to accounts with a stopped payment check or check drawn for insufficient funds. The late registration fee of $10 also applies.

IGA Student Government Fees

All students residing in a college dormitory during summer sessions are required to pay IGA fees as follows:

Regular Session- $4
Pre or Post Session- $2

Payment may be made by check, money order or cash with checks payable to "Intracollegiate Governmental Association." A summer activity card will be issued to students paying fees which entitles the student to participate in IGA services and recreational activities during the particular session.

Refunds

All refund requests must be made in writing during the appropriate session. Contact the Office of the Registrar, Learning and Research Center.

Students who withdraw after registration and before attending the first scheduled class meeting are entitled to a refund of all but $10. Students who withdraw before one-third of the scheduled classes have met are entitled to apply for a refund of one-half of the basic fees charged. Students who withdraw after one-third of the scheduled classes have met are not entitled to a refund.

In cases of personal illness, certified by the attending physician, or for emergency reasons having trustees' approval, the college will refund the portion of basic fees covering the number of weeks remaining. All requests must be made in writing to the financial manager.

Withdrawal Procedure

Students who wish to withdraw after paying their summer session fees must follow the official withdrawal procedure. Procedure begins by completing the withdrawal forms in the Office of the Registrar, Learning and Research Center.

ARE YOU LISTENING?

West Chester State College does NOT have a pay-by-mail system for Undergraduate Summer Sessions. Payment MUST be made at registration.

Regular Session Offerings

Monday, June 23, 1980—Friday, August 1, 1980
Registration—Monday, June 23, 1980
Classes Begin—Tuesday, June 24, 1980
Unless specified otherwise, regular session classes meet Monday through Friday for one and one-half hours.

— Accounting —

8:00 a.m.

BAC 301-31 Intermediate Accounting I (3)

9:30 a.m.

BAC 201-31 Principles of Accounting I (3)
BAC 202-31 Principles of Accounting II (3)
BAC 304-31 Cost Accounting II (3)

11:00 a.m.

BAC 405-31 Advanced Accounting (3)

6:45-10:00 p.m.

BAC 201-31 Principles of Accounting (3) Tue. and Thur.
BAC 401-31 Auditing (3) Tue. and Thu

— Anthropology and Sociology —

8:00 a.m.

ANT 102-31 Introduction to Anthropology: Cultural (3)
SOC 200-31 Introduction to Sociology (3)
SOC 344-31 Sociology of Religion (3)

9:30 a.m.

ANT 103-31 Introduction to Anthropology: Archaeology (3)
SOC 200-32 Introduction to Sociology (3)
SOC 362-31 Sexuality in Society (3)

11:00 a.m.

SOC 200-33 Introduction to Sociology (3)
SOC 353-31 Juvenile Delinquency (3)

TBA

ANT 113-31 Archaeological Field Techniques (3)
ANT 360-31 Historical Archaeology (3)

— Art —

8:00 a.m.

ART 101-31 Fine Arts, Art (3)
ART 231-31, 232-31, 331-31, 332-31 Ceramics Workshop (3) See "Summer Workshops/Other Special Offerings"

9:30 a.m.

ART 105-31 Art Workshop (3) See "Summer Workshops/Other Special Offerings"

11:00 a.m.

ART 216-31, 217-31, 316-31, 317-31, 226-31, 227-31 Painting Workshop (3) See "Summer Workshops/Other Special Offerings"
ART 231-32, 232-32, 331-32, 332-32 Ceramics Workshop (3) See "Summer Workshops/Other Special Offerings"
ART 347-31, 409-31, 410-31 Weaving Workshop (3) See "Summer Workshops/Other Special Offerings"

7:00 p.m.

ART 241-31 Printmaking: Introduction to Relief Printmaking (3)

8:30 p.m.

ART 242-31 Printmaking Introduction to Silk-screen Printmaking (3)

— Biology —

8:00 a.m.

BIO 100-31 Basic Biology (3) Lab. Tue. and Thu. 1:00-3:00 p.m.

8:00-10:00 a.m.

BIO 201-31 Basic Ecology (3) Including Lab

9:00 a.m.

BIO 117-31 General Zoology (4) Lab Mon. and Wed. 1:00-4:00 p.m.

9:00 a.m.-Noon and 1:00-3:00 p.m.

BIO 476-31 Common Summer Flowers of Chester County (1) July 14 through July 18. See "Workshops/Other Special Offerings"
BIO 475-31 Common Trees of Chester County (1) July 21 through July 25. See Summer Workshops/Other Special Offerings"

10:30 a.m.-12:30 p.m.

BIO 272-31 Field Ecology and Natural History (3) Including Lab

11:00 a.m.-Noon, Monday through Thursday

BIO 277-31 Field Zoology (3) Lab Tue. and Thu. 1:00-4:00 p.m.

11:00 a.m.

BIO 309-31 Human Physiology (4) Lab Tue. and Thu. 1:00-3:00 p.m.

— Business Administration —

8:00 a.m.

BAD 201-31 Business Organization and Management (3)

9:30 a.m.

BMK 327-31 Marketing Management (3)
BAD 101-31 Introduction to Business (3)

11:00 a.m.

BAD 302-31 Personnel Administration (3)
BMK 322-31 Advertising and Sales Promotion (3)

6:45-10:00 p.m.

BAD 402-31 Organization Theory and Behavior (3) Mon and Wed
BAD 405-31 Business Policy (3) Mon. and Wed
BAD 302-32 Personnel Administration (3) Tue. and Thu.
BLA 303-31 Business Law (3) Mon. and Wed
BAD 401-31 Production Management and Operations (3) Tue. and Thu.

3. Go to the **SCHEDULING AND ACADEMIC RECORDS TABLE** if

A. You plan to graduate in August (Sign here for your diploma) or
B. You need a form for veterans' benefits, or
C. You wish to transfer your West Chester State College credits to another college, secure the form here.

4. Go to the designated **WRITING TABLES** to fill out your form.
5. Go to the **CHECKING TABLE** where your registration cards will be checked for accuracy and collected.

Station III
Northwest Dining Room

1. **PAYMENT TABLE.** Pay basic fee and room-and-board fee here.
2. **AUTOMOBILE REGISTRATION TABLE.** Both commuting and resident students obtain automobile decals here.
3. **STUDENT ACTIVITIES TABLE.** Pay IGA Student Government fee here. Please have check made out and ready. See Fees and Expenses, page 5.

EXPLANATION OF COURSE DESIGNATIONS

The courses in this catalog are identified in three parts: abbreviation, course number and section number.

Key to Section Numbers:

	Abr.	Num.	Sec.
Pre Session – 20 series	ART	101	21
Regular Session – 30 series	ART	101	31
Post Session – 40 series	ART	101	41

Semester hours of credit are shown in parenthesis following course titles. Course descriptions are in the West Chester State College 1979-80 Undergraduate Studies Catalog. For additional information, consult the appropriate department.

— Economics —

8:00 a.m.

ECO 101-31 Principles of Economics—Survey (3)
ECO 132-31 Principles of Economics II (3)
ECO 334-31 Labor Economics (3)

9:30 a.m.

ECO 335-31 Money and Banking (3)

11:00 a.m.

ECO 131-31 Principles of Economics I (3)
ECO 351-31 Quantitative Business Analysis I (3)

6:00-9:30 p.m.

ECO 131-32 Principles of Economics I (3) Tue. and Thu.

— English —

8:00 a.m.

ENG 000-31 Basic Writing (0)
ENG 120-31 Effective Writing I (3)
LIT 162-31 Fiction (3)
LIT 295-31 Children's Literature (3)

9:30 a.m.

ENG 000-32 Bsic Writing (0)
ENG 121-31 Effective Writing II (3)
LIT 101-31 Great American Writers (3)
LIT 364-31 Modern Irish Literature (3)

11:00 a.m.

ENG 000-33 Basic Writing (0)
ENG 120-32 Effective Writing (3)
ENG 268-31 Business Communication (3)
LIT 340-31 Romantic Movement (3)

— Foreign Languages —

8:00 a.m.

FRE 101-21 Elementary French I (3) Special 5-week Session—June 2-July 3
GER 101-31 Elementary German I (3)
SPA 101-21 Elementary Spanish I (3) Special 5-week Session —June 2-July 3
FRE 102-31 Elementary French II (3) July 7 through August 8. Students must register on the first day of Regular Session.
SPA 102-31 Elementary Spanish II (3) July 7 through August 8. Students must register on the first day of regular session.
LAN 411-31 Puerto Rican Language and Culture (3)

9:30 a.m.

GER 102-31 Elementary German (3)

11:00 a.m.

GER 201-31 Intermediate German I (3)
GER 202-31 Intermediate German II (3)
FRE 201-21 Intermediate French I (3) Special 5-week session. June 2-July 3.
FRE 202-31 Intermediate French II (3) July 7 through August 8. Students must register on the first day of regular session.
SPA 201-21 Intermediate Spanish I (3) Special 5-week session. June 2-July 3
SPA 202-31 Intermediate Spanish II (3) July 7 through August 8. Students must register on the first day of regular session.

FRE French Major's Program (3-6) See "Summer Workshops/ Other Special Offerings"
GER German Majors Program (3-6) See "Summer Workshops/ Other Special Offerings"
LAT Latin Majors Program (3-6) See "Summer Workshops/ Other Special Offerings."
SPA Spanish Majors Program (3-6) See "Summer Workshops/ Other Special Offerings."

Self-Instructional Language Program (3-6) See "Summer Workshops/Other Special Offerings."

— Government and Planning —

8:00 a.m.

GEO 200-31 Patterns of World Culture (3)

9:30 a.m.

GEO 236-31 Climatology (3)
PSC 100-31 American Government and Politics (3)
PSC 215-31 Politics of the Law in Society

11:00 a.m.

GEO 101-31 World Geography (3)
PSC 100-32 American Government and Politics (3)

6:00-9:30 p.m.

GEO 212-31 Urban Growth Dynamics (3) Tue. and Thu.
GEO 401-31 Cartography (4) Mon. and Wed
PSC 100-33 American Government and Politics (3) Tue. and Thu.
PAD 374-31 Municipal and Administrative Law (3) Mon. and Wed.

TBA

PCS/PAD 412-31 Internship (3)

— Health —

8:00 a.m.

HED 106-31 Living and Dying (3)
HED 202-31 Foundations of Health II (3)
HED 303-31 Nutrition/Weight Control (3)

Academic Information

Credits

During summer sessions credits are usually earned at the rate of one semester hour of credit for each week of class. A student who attends all three sessions may earn 12 credits.

West Chester State College students wishing to carry more than six semester hours during Regular Session must obtain permission from their advisor. Students from other colleges must have permission from the school to which they plan to transfer the credits.

Reinstatement to the College in the Fall Semester

West Chester State College students who have not attained the required cumulative index by the end of the spring semester may attend summer sessions in order to improve their averages. Those who have not attained the required cumulative index by the end of the sessions will incur academic dismissal. Those who achieve the required index will be notified by letter from the chairperson of the Academic Standards Committee. They must then apply for readmission.

Students should consult their departmental handbooks concerning minimum standards for retention. Those admitted or readmitted after June 1973 must consult the academic information section of the current Undergraduate Studies Catalog.

Withdrawal from the College

West Chester State College degree candidates who wish to withdraw from the college – that is, not return in the fall semester – should report to the Office of the Registrar.

Withdrawal from a Course

Withdrawal from a course must be initiated by the student. He or she must first inform the instructor of the intention to withdraw. Then the student must go to the Office of the Registrar in the Learning and Research Center to complete the procedure. If a student fails to follow this procedure in withdrawing from a course, he or she will receive a grade of F for the course.

Refer to "Fees and Expenses," pages 4-5, for the withdrawal refund policy and procedure.

Course Changes

After registration, the course change periods are:

Pre and Post Sessions: The first Tuesday after registration.

Regular Session: The first Tuesday and Wednesday after registration.

Go to the Office of the Registrar.

Course changes may also be made before the scheduling deadline of a session in the Summer Sessions Office.

9:30 a.m.

HED 108-31	Introduction to Environmental Health (3)
HED 201-31	Foundations of Health I (3)
HED 206-31	Human Development (3)
HED 301-31	Health for Elementary Grades (3)

— History —

8:00 a.m.

HIS 101-31	History of Civilization I (3)
HIS 344-31	History of Pennsylvania (3)

9:30 a.m.

HIS 101-32	History of Civilization I (3)
HIS 102-31	History of Civilization II (3)
HIS 400-31	Senior Seminar (3)

11:00 a.m.

HIS 102-32	History of Civilization II (3)

6:00-9:30 a.m.

HIS 151-31	History of United States I (3) Mon. and Wed
HIS 152-31	History of United States II (3) Tue. and Thu.
HIS 357-31	Diplomatic History of United States (3) Tue. and Thu.

— Instructional Media Education —

8:00 a.m.

EDM 460-31	Basic Photography (3)

9:30 a.m.

EDM 300-31	Introduction to Instructional Communications (3)

— Mathematical Sciences —

8:00 a.m.

MAT 101-31	Math for Elementary Teachers (3)
MAT 102-31	Math for Elementary Teachers II (3)
MAT 103-31	Introduction to Mathematics (3)
MAT 107-31	Calculus for Business I (3)
MAT 411-31	Modern Algebra I (3)
CSC 141-31	Computer Science I (3)

9:30 a.m.

MAT 108-31	Calculus for Business II (3)
MAT 121-31	Statistics I (3)
MAT 441-31	Advanced Calculus I (3)
CSC 101-31	Introduction to Computers (3)
CSC 495-31	Topics: APL (3)
CSC 495-32	Graphics for High School Teachers (3)

11:00 a.m.

MAT 142-31	Calculus II (4)
MAT 162-31	Applied Calculus II (4)
MAT 351-31	Teaching Math in the Elementary School (3)
CSC 101-32	Introduction to Computers (3)

TBA

CSC 495-33	Topics: Advanced Graphics (3)

— Music —

8:00 a.m.

MUS 347-31	History of Jazz (3)
MUS 429-31	Special Subjects Seminar Electronic Music (3)
MUS 414-31	Acoustics (3)
MUS 226-31	Art Song (3) 8:00-11:00 a.m., June 23-July 11
ICO 312-31	Instrumental Conducting (2) July 14-August 1. Students must register on June 23.

9:30 a.m.

MUS 121-31	Fine Arts, Music (3)
MUS 344-31	Music of the 19th Century (3)
MUS 112-31	Music Theory I (3)
MUS 113-31	Music Theory II (3)
MUS 212-31	Music Theory III (3)
MUS 213-31	Music Theory IV (3)
MUS 429-32	Special Subjects Seminar Wind Musicianship (2) June 23 -July 11

11:00 a.m.

MUS 114-31	Aural Activities I (2)
MUS 115-31	Aural Activities II (2)
MUS 214-31	Aural Activities III (2)
MUS 215-31	Aural Activities IV (2)
MUS 429-33	Special Subjects Seminar The Piano Concerto (3)

12:30 p.m.

MUS 338-31	Piano Pedagogy (3)
SEN 111-31	String Ensemble (2) July 14-August 1. Students must register on June 23

1:00 p.m.

CCO 312-31	Choral Conducting II (2)

2:00 p.m.

CHO 311-31	Chorus (1)

3:15 p.m.

BND 311-31	Band (1) July 14-August 1. Students must register on June 23

— Philosophy —

8:00 a.m.

PHI 101-31	Introduction to Philosophy (3)

9:30 a.m.

PHI 101-32	Introduction to Philosophy (3)

11:00 a.m.

PHI 375	Existentialism (3)

6:00-9:30 p.m.

PHI 101-33	Introduction to Philosophy (3) Mon. and Wed.

— Physical Education —

8:00 a.m.

PED 356-31	Principles and Practices of Driver Education and Traffic Safety (3)
PED 362-31	Therapeutics for Special Physical Education (3)

Summer Graduation

Students who expect to graduate at the end of the summer sessions are urged to attend the spring commencement preceeding summer sessions. It is the student's responsibility to notify the Office of the Registrar in person of anticipated graduation and to see that his or her name, written as desired, is placed on the list of prospective graduates.

College Regulations and Policies

The same regulations for student procedure and conduct that are in effect during the academic year are also in effect during summer sessions. Deadlines are adjusted appropriately.

Academic policies may be found in the Undergraduate Studies Catalog.

ACCREDITATION

West Chester State College is accredited by the Middle States Association of Colleges and Secondary Schools; the National Council for Accreditation of Teacher Education; the American Association for Health, Physical Education, and Recreation; the National Association of Schools of Music, the Council on Social Work Education; and the American Chemical Society. West Chester State College is a member of the Council of Graduate Schools in the United States.

9:30 a.m.

PED 456-31 Preparation for Teaching Driver Education (3)

11:00 a.m.

PED 101-31, 102-31 Physical Activities (Tennis) First four weeks.
PED 143-31 Golf, Archery (1)
PED 200-31 Elementary school Physical Education (2)
PEL 362-31 Therapeutics for Special Physical Education Lab (2)
PED 101-31, 102-32 Physical Activities (Sailing) (1) First four weeks Additional Fee.

TBA

PED 101-33, 102-33 Physical Activites (Rock Climbing) (1)
PED 467-31 Supervised Camping Leadership (3)

By Special Arrangement

PED 370-31 Camp Counseling (3)—See Mr. Lauletta, Physical Education Department

Athletic Training Program—June 16-August 14
See "Workshops/Other Special Offerings"

PED 357-31 Therapeutics (3)
PEL 357-31 Therapeutics Lab. (2)
PED 357-32 Therapeutics (3)
PEL 357-32 Therapeutics Lab. (2)
PED 358-31 Advanced Athletic Training I (3)
PEL 358-31 Advanced Athletic Training I Lab. (1)
PED 358-32 Advanced Athletic Training I (3)
PEL 358-32 Advanced Athletic Training I Lab. (1)
PED 359-31 Advanced Athletic Training II (3)
PED 359-32 Advanced Athletic Training II (3)

— Physics —

8:00 a.m.-12:00 noon

PHY 103-31 General Physics I (4) June 23 through July 18
PHY 104-31 General Physics II (4) July 21 through August 15. Students must register June 23.

— Psychology —

8:00 a.m.

PSY 100-31 Introduction to Psychology (3)
PSY 427-31 Behavior Modification (3)

9:30 a.m.

PSY 245-31 Research Methods and Statistics I (3)
PSY 270-31 Mental Hygiene (3)
PSY 364-31 Physiological Psychology (3)

11:00 a.m.

PSY 100-32 Introduction to Psychology (3)
PSY 375-31 Abnormal Psychology (3)
PSY 435-31 Animal Behavior (3)

6:00-9:30 p.m.

PSY 210-31 Developmental Psychology (3) Mon. and Wed
PSY 100-33 Introduction to Psychology (3) Mon. and Wed
PSY 365-31 Industrial Psychology (3) Tue. and Thu.

TBA

PSY 441-31, 442-31 Field Experience I and II (3)

— Secondary Education and Professional Studies —

8:00 a.m.

EDF 100-31 School and Society (3)

8:00 a.m.-1:00 p.m.

EDS 412-31 Student Teaching and Direction of Activities (Secondary Education) Including Practicum (6)

9:30 a.m.

EDP 250-31 Psychology of Learning and Development (3)

11:00 a.m.-Noon

EDP 351-31 Evaluation and Measurement (3)

6:00-9:30 p.m.

EDF 100-32 School and Society (3) Tue. and Thu
EDP 250-32 Psychology of Learning and Development (3) Mon. and Wed.
EDP 351-32 Evaluation and Measurement (3) Tue. and Thu.

— Special Education —

8:00 a.m.

EDA 350-31 Life Curriculum and Methods Handicapped Learners (3) Majors only

9:30 a.m.

EDA 301-31 Field Experience and Seminar Mentally Handicapped (3)
EDA 302-31 Field Experience and Seminar Physically Handicapped (3)

— Speech Communication and Theatre —

9:30 a.m.

SPC 217-31 Directing and Producing the Documentary Television Provision Program (3)

11:00 a.m.

SPC 415-31 General Semantics (3)

6:00-9:30 p.m.

THA 210-31 Creative Dramatics (3) Mon. and Wed.
SPC 101-31 Speech Fundamentals (3) Tue. and Thu.

7:00-9:00 p.m.

THA 300-31 Summer Drama Workshop (1-3) Mon. through Thu. See "Summer Workshops/Other Special Offerings"

— Speech Pathology and Audiology —

8:00 a.m.

SPP 106-31 Phonetics (3)

9:30 a.m.

SPP 107-31 Speech/Language Development (3)

TBA

SPP 352-31 Advanced Clinical Practicum (3)

Marine Science Consortium

SUMMER SESSIONS 1980 **WALLOPS ISLAND, VIRGINIA**

Session I	Session II	Session III	Session IV	Session V
Marine Biology	Marine Biology (repeat)	Marine Invertebrates	Marine Ichthyology	Marine Ecology
Introduction to Oceanography	Marine Botany	Field Methods in Oceanography (repeat)	Wetlands Ecology	Coastal Vegetation
	Introduction to Oceanography (repeat)	Behavior of Marine Organisms	Tropical Invertebrates	Ornithology
	Field Methods in Oceanography	Marine Geology	Physical Oceanography	Chemical Oceanography

Session I is the period between finals and Pre-Session. Sessions II through V correspond with the Pre-, Regular, and Post-Sessions.

All interested students should contact Professor Harry Jones, Biology Department, 215 436-2520.

Post Session Offerings

Monday, August 4, 1980—Friday, August 22, 1980
Registration—Monday, August 4, 1980
Classes Begin—Tuesday, August 5, 1980
Unless specified otherwise, post session classes meet Monday through Friday from 8:00 a.m. to noon with a break from 9:30 to 10:30 a.m.

— Accounting —

BAC 202-41 Principles of Accounting II (3)
BAC 302-41 Intermediate Accounting II (3)

— Anthropology and Sociology —

ANT 102-41 Introduction to Anthropology: Cultural (3)
SOC 240-41 Sociology of the Family (3)
SOC 402-41 Community Involvement Internship (6) TBA

— Art —

ART 101-41 Fine Arts, Art (3)
ART 104-41 Survey of Art History (3)

— Biology —

BIO 100-41 Basic Biology (3) Including Lab

— Business Administration —

BAD 201-41 Business Organization and Management (3)
BAD 101-41 Introduction to Business (3)
BLA 302-41 Special Subjects in Business Law (3)

— Chemistry —

CHE 111-41 Chemistry What People Eat (3) For non-science majors. Includes Laboratory
CHE 403-41 Chemistry of the Environment (3) 4 30-7:30 p m. Includes Laboratory and/or Field Trips

— Criminal Justice —

CRJ 220-41 Corrections (3)
CRJ 400-41 Case Management (3) 6:00-9:30 p.m. Mon through Thu.
CRJ 490-41 Practicum (12) TBA

— Early Childhood and Elementary Education —

EDE 310-41 Communication Skills in the Elementary School (3)
EDE 481-41 Constructing Activity-Oriented Teaching Materials for the Elementary School Classroom (3)

— Earth Sciences —

ESS 410-41 Independent Study (1-3) Must have permission of instructor.
ESS 480-41 Special Problems (1-3) Must have permission of instructor.
ESS 520-41 Geology of the National Parks (4) Must have permission of instructor—Johnson.

— Economics —

ECO 101-41 Principles of Economics-Survey (3)
ECO 132-41 Principles of Economics II (3)
ECO 352-41 Quantitative Business Analysis II (3)

— English —

ENG 000-41 Basic Writing (0)
ENG 120-41 Effective Writing I (3)
ENG 121-41 Effective Writing II (3)
LIT 335-41 Shakespeare I (3)

— Foreign Languages —

FRE 102-31 Elementary French II (3) 8:00-9 30 a m. July 7 through August 8. Students must register on the first day of regular session.
SPA 102-31 Elementary Spanish II (3) 8:00-9:30 a.m. July 7 through August 8. Students must register on the first day of regular session.
FRE 202-31 Intermediate French II (3) 11:00 a m.-12 30 p.m July 7 through August 8. Students must register on the first day of regular session.
SPA 202-31 Intermediate Spanish II (3) 11 00 a.m -12 30 p.m July 7 through August 8. Students must register on the first day of regular session.

— Government and Planning —

GEO 101-41 World Geography (3) 6:00-9.30 p.m.
GEO 230-41 Conservation (3)
PSC 100-41 American Government and Politics (3)
PAD 364-41 Elements of Public Administration (3)
PSC/PAD 412-41 Internship (3)

— Health —

HED 104-41 Human Sexuality (3) 9.00 a.m.-noon
HED 201-41 Foundations of Health I (3) 9:00 a.m.—noon

— History —

HIS 161-41 Violence in America (3)
HIS 220-41 Renaissance & Reformation (3)

— Mathematical Sciences —

MAT 103-41 Introduction to Mathematics (3)
MAT 105-41 College Algebra and Trigonometry (3)
CSC 200-41 Cooperative Operations (3) TBA
CSC 400-41 Cooperative Specialty (9) TBA

— Music —

MUS 121-41 Fine Arts, Music (3)
MUS 231-41 Music for the Classroom Teacher (3)
MUS 416-41 Jazz Practices (3) Second week of post session.

— Philosophy —

PHI 101-41 Introduction to Philosophy (3)

— Physical Education —

PED 352-41 Applied Physiology (3)
PED 450-41 Methods and Materials of Safety Education (3)
PED 101-41, 102-41 Physical Activities (Tennis) (1) 12:30-2:00 p.m.
PED 371-41 Outdoor Adventure—Mini Outward Bound (2) Additional Fee

— Psychology —

PSY 100-41 Introduction to Psychology (3)
PSY 430-41 Human Sexual Behavior (3)

— Secondary Education and Professional Studies —

EDP 250-41 Psychology of Learning and Development (3)
EDP 351-41 Evaluation and Measurement (3)
EDO 411-41 Environmental Outdoor Education Workshop (3)

— Special Education —

EDA 100-41 Mainstreaming for Exceptional Students (3)

Summer Workshops & Other Special Offerings

Art

Art Workshop

If chimpanzees can paint, why can't you? Take advantage of this open workshop which our Department of Art initiated several years ago for those who have the urge to express themselves in non-verbal, that is, visual media Enthusiastic response to this course grows with each season. It explores techniques in drawing, painting, design, printmaking and 3-dimensional media. Offered pre and regular session for 3 credits. See ART 105-21 and ART 105-31

Art in the Elementary School

A seminar course concerned with the effective and creative teaching of art in the elementary school, this workshop explores a wide variety of media suitable for use with children together with the innovative use of cultural and community resources Offered in pre session. See ART 251-21.

Studio Workshops

A number of workshops, open in nature, offer opportunities in drawing, painting, water color, ceramics, weaving and printmaking Offered in pre and regular sessions. To make the appropriate course selection, check the course listings with their descriptions in the regular catalog or consult the Department of Art.

Biology

Mini-Courses in Biology

Enthusiastic response to West Chester's mini-courses in biology has resulted in more of these one-week sessions being offered this year. Nature lovers of all groups and varying levels of proficiency will enjoy the many field trips to observe and learn about the many species of flowers and trees native to the local area Each course will meet for five days during regular session from 9:00 a.m. to noon and from 1:00 to 3:00 p.m. Common Summer Flowers of Chester County will be offered July 14-18. See BIO 476-31. Common Trees of Chester County will be offered July 21-15. See BIO 475-31.

Foreign Languages

Self-Instructional Language Program

Conversational Chinese, Japanese, Portuguese and Modern Greek may be available depending on enrollment and staff Students must register with Ronald L. Gougher, Department of Foreign Languages, West Chester State College, West Chester, Pa 19380.

Advanced Majors Program

Students from other colleges and universities are welcome to apply for admission to this program which offers advanced courses in French, German and Spanish. Students may begin any time during June and complete work in July. Time spent and credits earned (3-6) will vary according to the needs of students Students must register with Ronald L. Gougher, Department of Foreign Languages.

Latin Majors Program

Students from other colleges and universities are welcome to apply for admission to this program which offers all courses in Latin. Students may begin any time during June and complete work in July. Time spent and credits earned will vary according to the needs of students. Students must register with John Rosso, Department of Foreign Languages

Music

Jazz Studies Workshop

Nationally known jazz artists will offer classes in stage band direction, contemporary improvisation, arranging and the pedagogy of improvisation. The workshop is designed for anyone interested in the study of jazz, both instrumental and vocal, and will accomodate all age groups and all levels of ability The vocal aspect (includes both solo and ensemble) will be this year's special added attraction. This workshop will be offered August 11 through August 15 for a fee of $70. For further information concerning the workshop and its faculty, contact James Sullivan, School of Music, West Chester State College, West Chester, Pa 19380, telephone (215) 436-2628 or 2739.

Music Education Workshop

With intensive examination and utilization of Silver Burdett Music books and materials for the classroom teacher, participants will select the level of classroom music best suited for their needs The focus of instruction will be on innovative and creative ways of teaching the basic skills and concepts of music. Instructors will include Silver Burdett Music authors and consultants as well as members of the WCSC Department of Music Education staff. Offered July 14 through July 18. For further information contact Richard Merrell, School of Music, West Chester State College, West Chester, Pa. 19380, telephone (215) 436-3337.

Marching Band Conference and Workshop

Designed primarily for high school and college directors and students, this conference is sponsored by the West Chester State College Marching Band and School of Music. Offerings include flags, rifle and twirling instruction for both intermediate and advanced sections, clinics in intermediate and advanced percussion; and separate workshops for students and directors. Outstanding authorities participate This is the tenth annual band event. It will be offered August 4 through August 8. For information, contact James R. Wells, Marching Band Director, School of Music, West Chester State College, West Chester, Pa. 19380, telephone (215) 436-2495.

Eighteenth Annual High School Music Workshop

In this summer music workshop for serious musicians of high school age, the offerings will include band, orchestra, chorus, individual lessions, music theory, music appreciation, conducting, improvisation seminar, related arts seminar, ensembles and dance band as well as master classes in repertoire and literature for students of voice and piano. Concerts, recitals and special clinics, open to the public, are highlights Offered July 14 through July 31. No credit. For a brochure and application forms, write to the High School Music Workshop, West Chester State College, West Chester, Pa. 19380.

Physical Education

Athletic Training Education Program

This block of courses, part of an 18-hour block with prerequisites, partially fulfills the National Athletic Trainer's Association's approved program for preparation toward national certification. This summer the WCSC Department of Physical Education is offering twelve hours which run continuously and which must be taken as a block from 8.00 to 11:30 a.m. and 1:00 to 2:00 p.m., Monday through Friday Offered June 16 through August 14. See PED 357-31, PED 357-32, PEL 357-31, PEL 357-32, PED 358-31, PED 358-32, PEL 358-31, PEL 358-32, PED 359-31 and PED 359-32 listed in regular session. For additional information and an application, contact Phillip B. Donley, School of Health Sciences, Department of Physical Education, West Chester State College, West Chester, Pa. 19380. Deadline for applying is May 1, 1980.

Secondary Education and Professional Studies

Environmental (Ouldoor) Education Workshop

While participants in the Environmental Education Workshop put in their fair share of hard work, any description of the program still reads more like a wilderness vacation brochure than a course offering. A field-centered learning experience, the workshop includes camping trips (several days at the Ohio Pyle State Part area for a study of flora and fauna and a day of white-watering) and a field investigation of the Wild Watertowl area near Lebanon. Staff from the Pennsylvania Game Commission take part in some of the field expeditions, and there is other interaction with various governmental agencies as well as informal investigation of various problems. Designed to integrate the wide range of background and interests among the participants, this workshop provides credit toward certification, may be taken as an elective or may be taken on an auditor's basis Offered during post session for 3 credits. See EDO 411-41. For further information, contact John Holingjak, Coordinator of Environmental Education, West Chester State College, West Chester, Pa 19380, telephone (215) 436-2791.

Speech Communication and Theatre

Summer Drama Workshop

Devoted to development of acting and directing skills through special projects in a "cabaret theatre" setting, this workshop produces several plays. Offered for 1-3 credits during regular session. See THA 300-31. For further information, contact the Department of Speech Communication and Theatre, West Chester State College, West Chester, Pa 19380, telephone (215) 436-2500.

West Chester State College
West Chester, Pennsylvania 19380

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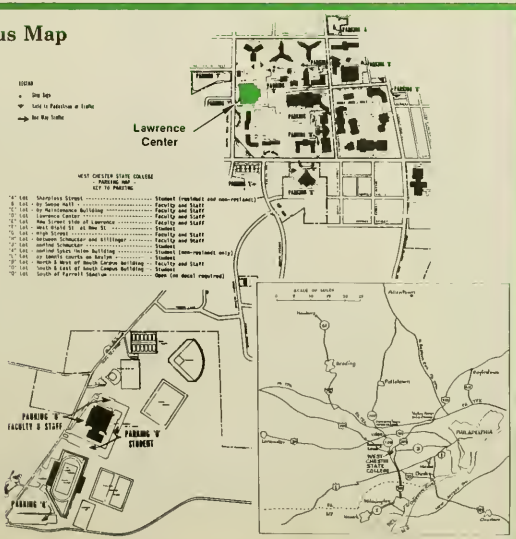
THIRD CLASS

SPECIAL NOTE:
NO ADDITIONAL FEE FOR OUT-OF-STATE SUMMER STUDENTS

Campus Map



1980 SUMMER SESSIONS
UNDERGRADUATE OFFERINGS

WEST CHESTER STATE COLLEGE
West Chester, Pennsylvania

Attention Scanner:
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OUT-OF-STATE SUMMER STUDENTS

Communications Directory

MAILING ADDRESS:	West Chester State College, West Chester, Pa. 19380
TELEPHONES:	Dial 436 plus number in parenthesis. For Schools, Departments, and other offices not shown here, call the College Switchboard: 436-1000. Area Code: 215.
Academic Advising	Director for Academic Advising, Anderson Hall (3505)
Affirmative Action	Director of Affirmative Action, Philips Memorial Hall (2433)
Admissions/Catalogs	Director of Admissions, Learning and Research Center (3411)
Business/Financial Matters	Financial Management Division, Philips Memorial Hall (2211)
Cultural Affairs and College Events	Director of Cultural Affairs and College Events Sykes College Union Building (2336)
Continuing Education	Director of Continuing Education and Evening Studies, Anderson Hall (2811)
Counseling Center	Student Affairs, Lawrence Center (2301)
Curricula/Enrollment/ Undergraduate Academic Matters/ Transcripts	Office of the Registrar, Learning and Research Center (2420)
Financial Aid/ Work-Study	Director of Financial Aid to Students, Lawrence Center (2627)
Graduate Studies/ Catalogs	Dean of Graduate Studies, Ruby Jones Hall (2243)
Higher Education Opportunity Program	Director of Higher Education Opportunity Program, Ruby Jones Hall (2600)
Housing	Student Development Office, Sykes College Union Building (2818)
IGA Business Office	Intracollegiate Governmental Association, Sykes College Union Building (2955)
Placement/Careers	Director of Career Development Center, Lawrence Center (2501)
Public Relations	Director of College Information and Publications, Old Library, (2231)
Summer Sessions	Director of Summer Sessions Learning and Research Center (2230)
Undergraduate Academic Matters	Dean of Academic Services, Learning and Research Center (2334)
Veterans' Affairs	Office of Veterans' Affairs, Ruby Jones Hall (2668)

west chester state college
west chester, pa. 19380